CURRICULUM VITAE

Name James Kitching BSc Hons (2.1) MSc (Software Engineering)
Microsoft Certified Professional (**C# .Net Windows Application Development MCP**)
Microsoft Certified Professional (**VB 6.0 Application Development MCP**)

Address 40 Hanbury Lane, Email Jameskitching@hemseye.org
Haywards Heath, Websites http://hemseye.org (My Open Source AGI project)
www.klore.co.uk (Professional Software Engineer)

RH16 3HU

Profile

I am looking to redirect my IT career with launch of an artificial intelligence ethical open source research project http://hemseye.org project (under construction). I am a professional commercial full lifecycle software engineer with many years experience. I have mainly worked on handheld data capture and client server systems. I was previously a business analyst implementing business, accounting and manufacturing control systems.

The yellow sections in the curriculum vitae highlight when I have been involved in producing documentation or user and customer facing activities.

The **logos** that appear on my CV are for companies that I have visited for pre-sales, requirement capture, software delivery, or training and support purposes.

Qualifications / Academic Achievements

Offered a PhD position with Dr Bordbar and Dr Hill at **Birmingham University 2013** "Natural Language to State and Process Modelling for Simulation. Towards the Development of A Cloud Based Hive Memory" but was unable to get reasonable funding
Microsoft Certified Professional - C# .Net Windows Development **82%**
Microsoft Certified Professional - Visual Basic 6.0 Desk top Application Development **84.2%**
MSc Software Engineering - **68%** - & **71%** in the Project (**Coventry University – 1993/94**)
Registered to study for a **Ph.D** - Completed one year (**Cambridge University – Emmanuel College 1986/87**)
BSc Hons **2.1** - Biochemistry & Applied Molecular Biology (Genetic Engineering) (**UMIST 1983/86**)
A'Levels Biology, Chemistry, Physics, ACD.

Year Of Experience

Windows forms development	16 years (.Net and COM)
Microsoft / Visual Studio development	16 years
.Net development (1.0 / 1.1 / 2.0 / 3.5 / 4.0)	6 years
Windows Mobile / CE / Compact Framework	8 year (C#)
ASP.Net	1 year (6 months C#, 6 months VB.Net)
Pre WCF WinForms	4 years (1½ years C#, 2½ year VB.Net)
Webservices	6 months C#
WCF	6 months C#
C#	11 years
VB.NET	3 years
Visual Basic 5-6	5 years
C++	2 years
C	4 years
SQLLite	5 years
SQL Server Projects	20 years
MS Access Projects	1 years
Oracle 9/10g	6 months .NET projects including stored procedure development

Tools/Technologies

Win Forms, ASP.Net, Win CE, Windows Mobile, WCF, multi-threading, AJAX, .Net 3.5**,** 2.0, 1.1 and 1.0. C#, VB.Net, Visual Basic 5-6, 'C', C++, HTML, XHTML, DHTML, CSS, XML / XSD / XSLT, WSDL, webservices, Javascript, JQuery, Design Patterns, Subversion/Sourcesafe/Git, Visual Studio 2015/2010/2008/2005/2003 etc, Reflector, Nant, Dotfuscator, ADO.NET, ADO, DAO, RDO, Wise, Installshield, InstallAware, MTS, COM/DCOM, SQL, Crystal Reports 9.x, IIS, OnTime, MS FrontPage, MS Access VBA, MS Excel + VBA, MS Visio, Clearcase, Purify, Kenny Carter Shlaer Mellor case tool (Similar to UML) .

Environments

Windows10, Windows 7, Vista, XP, Windows CE 5.0, Windows Mobile Professional 6.5, Windows Server 2000/2003/ , NT 4.0, Windows 95/98, Windows for Work Groups, Windows 3.1x, Ubuntu 16.04 / Unix, DR-DOS, PSOS.

DBMS
Microsoft SQL Server 2014, 2008 / 2005 / 2005 / Express, 2000, 7, 6.5, MySQL 5.0, MS Access, ORACLE 10g, 9.x, 7

Isys Interactive Systems Limited September 2012 – Present

C# .Net 3.5 Windows Mobile 6.5, Windows CE 5.0, SQL Server 2008, Windows 7. Visual Studio 2008
I am employed as a Windows Mobile device developer and server backend / system architecture developer. I develop and support systems in the milk and aggregate delivery industries as well as the waste collection industry. We have installed over 1000 handhelds in solutions up to 80 units at a time. I have also worked with National Express Coaches and The Kings Ferry on two coach ticketing solutions.

I developed a generic over the air software update system for remote devices who implement an IDevice interface. Updates are done using a configurable customer device deployment list maintained on a website. To check for the need for an update from a device a webservice call is made from a device independent dll to the updates website. Updates are downloaded as required as a zip file before running an update.exe which runs an application independent script. Using this mechanism it is possible to update or completely change the application running on a device.

Self Employed Windscreen Chip Repair Operator August 2011 to July 2012

After reluctantly entering the contract market after redundancy I found that I did not enjoy working away from home in Worcestershire. There still being no suitable permanent positions available within the Worcestershire area (an IT back water) I took up a windscreen chip repair franchise. A friend had done extremely well running this franchise. This did not return the expected financial rewards so I moved to the south east and returned to work within IT.

Contract June 27th 2011 – 15th July 2011 + Extensions to 5th August 2011

Cambridge Medical Innovations Limited desktop, embedded and web technologies
Lead the evaluation of a custom wireless module; I developed and documented tests to prove the capabilities of a wireless module and documented the steps needed to allow easy hardware integration in future projects. The testing indicated that the modle had some reliability problems.

Contract March 2011 – 27th April 2011 + 3 Extensions to 23rd June 2011

Babcock Airports Ltd development for Vancouver airport using .NET 3.5 C# Oracle 10g Visual Studio 2010/2008
Windows Mobile 6.5 boarding card scanner system capturing data to an Oracle 10g database via asynchronous webservices using .NET 3.5 C# and Visual Studio 2008 / 2010. Transmission and receipt of data was also required to a third party via webservices using immediate and offline storage then batch send. An Oracle database is used to record alarms, events, captured data and status information. All the software follows a three tier design. Webservices are tested using ASP.NET input pages. Data can be input into the ASP.NET pages as XML, as a single boarding pass scan in three possible formats or as auto generated batches. Test data is validated using standard ASP.NET page validators. A Windows service was implemented to monitor and restart the ASP.NET process (The customer would not upgrade to IIS 7.5 and .NET 4.0).   The Windows service uses a separate internal thread as a worker process to allow prompt shut-down.

I entered the contract job market after redundancy there being no suitable permanent positions available in Worcestershire.

April 2009 to February 2011 – Applied Principles

Food industry quality management system development using C# / VB.NET and SQL 2005 and WCF. Visual Studio 2008
ASP.NET technical design and development of a dashboard application to display quality system activity. The user interface is tab based and repeatedly updates a number of grid or reporting services reports. The reporting services reports are selected from a set of user reports and then have their date time parameters substituted based on a configuration.

Load test a reporting services ASP.NET application using WaTin VB.NET .NET 2.0 SQL2005 windows application. The development involved producing web page navigation instructions in WaTin and javascript to set the state of the web pages. I used multi threading to start multiple browsers / web users (up to 10) on the same PC and ten PC's in total to model 100 users logging onto the application and working the software as fast as possible.

Developed a quality system backup service to transfers data using a webservice logon to obtain a session GUID then an upload call is made that validates the session and then validates the uploaded data against an XML schema. The upload process is controlled either by a windows service or an executable (The executable was implemented for citrix support); the upload process uses a common client dll. A separate thread is used for processing to allow fast system shut-down. The software automatically recovers and retries processing data after a delay. The software is able to recover from errors such as network loss or re-installation of the web service. ASP.NET test page implemented for ease of debugging.

Data import of a multiple part xml document to update a sql server database using a webservice. Batch import validates data against an XML schema, then against existing/imported data, then checks the data by first importing into a staging database before updating the production database.   ASP.NET test page implemented for ease of debugging.

Winforms user interface redesign and development of the quality tasks to use a tree design to contain quality checks and sub checks of up to twenty different types with sub checks being triggered by one of six different maths operators. The user interface can be either button or popup menu driven and is highly context sensitive depending on the tree node that is currently selected.

Produced requirements specification, design documentation and a test specification for each system development.

Material traceability system design for the food industry that integrates with the Applied Principles quality system
.Net 3.5 Windows CE C# and SQL Server 2005
Undertook site visits customer presentations and the writing of a functional specification and a software architecture description.

Silverlight prototype to demonstrate the use of this technology in providing an animated console to the material tracking system.

The system was developed on a Windows CE 5.0 device. From the outset it was planned that the software would at a later date need to be implemented on a web and windows desktop based application. Development used a layered service orientated architecture to allow easy redevelopment as a web or windows application by the reuse of the existing business logic and data access layers (Using an MVC pattern for the UI / business layer and the service locator design pattern to select the required XML or SQL Server data access layer - http://www.martinfowler.com/articles/injection.html#UsingAServiceLocator).

The hand held software communicates with the server by passing XML to a WCF web service. On the server XML is re-serialised back into objects. Objects are processed into the database based on an associated message ID. The hand held software can operate outside of wireless range using downloaded XML data as reference information. XML data on the hand held is updated automatically when a user first logs on if a new version is available. Data selections on the hand held screen intelligently reduce the choices offered to the user as choices are made. Due to the low performance of the device it is necessary to cache collections of objects that reference other collections so that data subsets can be quickly offered to the user as choices are made.

System Sure ATP analysis integration
C++ MFC .Net 2.0 VB.NET
Modify an existing C++ MFC desktop application to run as a DLL that can be called by .NET so that a System Sure "ATP" test device can be used by an Applied Principles .NET application running on a Windows CE device.

August 2006 to March 2009 - Crystal Software Solutions Ltd

Mortgage **Intelligence**

Crystal Position Details:

August 2007 – March 2009 Senior Developer Customer first point of contact for Mortgage Intelligence / Project / Product Manager / Technical Architect / Team Leader for up to three developers. *"The relationship with Crystal over the last year or more has been fantastic and exceeded our expectations."* Richard Morgan Mortgage Intelligence Project Manager

January 2007 – July 2007 Team Leader for a four developer team in a 24 developer project. Working on the data separation task of adding support for a Nationwide network of advisers to the Legal and General EPOS System. Working up to 60 hrs a week, project delivered on time.

August 2006 - December 2006 Developer - L&G Release 4.2 part of a twenty four developer team. *Lowest bug rate of all the developers on the project.*

Legal & General / Nationwide / Mortgage Intelligence – Mortgage / Insurance Sales EPOS System
Nationwide
.Net 2.0 ASP.NET and Winforms VB.NET SQL 2000
Online and offline financial sales system; a sales compliance tool used by financial advisor's covering mortgages and insurances. An application core to the L&G sales process supporting many billions of £ worth of sales (1 in 8 UK mortgages are from L&G). Used by Mortgage Intelligence to support £1billion in sales per annum.

Time spent 50% on ASP.NET and 50% on winforms as the system was required to work on and offline as financial advisor work in their office(online - ASP.NET) and visit people in their homes (offline - winforms). Development and maintenance of web pages, webservices and winform applications. Javascript and AJAX were used to add a more sophisticated user experience.

Production of a PDF IDD (Initial Disclosure Document) defining the scope of the advice sort and whether the advice was "whole market" or from a limited panel. The capture of detailed personal and financial information and raising financial quotations for life insurance, house insurance and mortgage / payment protection insurance, pensions and investments and savings. The scope of questions asked varied depending on what was entered in the IDD (Whether the client wanted simply mortgage and insurance advice or also wanted pensions or savings advice). Production of ROS compliance documentation (Mortgage - Record Of Suitability).

VB.NET .NET 1.1 webservice upload of financial XML data from various winforms based offline applications to ASP.NET based system.

Implementation of L&G financial illustrations both online and offline, re-engineering the existing design to use base classes. *The new base class reduced illustration code by 60%. Re-engineered nested Winforms illustration tab to an object orientated design using interfaces and information hiding. Implementation of offline and online data layer using auto generated code.*

Integration with a number of online and offline tools for raising a number of different types of financial quotation. Technology used included webservices XML XSLT and COM integration. Tool suppliers including Trigold, Mortgage Brain, TheSource, HBOS, Asureweb, PaymentShield etc. Used XSLT to reformat XML messages across interfaces.

Database query and index and clustered index design performance optimisations.

Vista compatibility amendments.

InstallAware and ActiveX control used to install/update winforms applications via the web. Auto update mechanism for updating offline applications from a browser using an ActiveX control (VB6) and a call to a webservice. Webserver InstallShield installer changes.

Nant build script amendments.

Documentation including requirements, change requests, all customer contact, system design and architectural description, project planning, detailed design and testing, release notes, product support and installation. Site visits.

Re-defined the company SQL development standard.

ASP.NET .NET 2.0 VB.NET
Implemented the annual update and maintenance of www.nokiaacademy.co.uk. A website run by Nokia for UK mobile phone shop employees for advertising and booking sales training courses. I replaced all of the images on the site and updated the site to the new corporate look and feel in line with Nokia's requested updates. Replaced information on Nokia support and training personnel. Updated training course locations booking availability information. Sent automated emails via the website to nokia academy members advising them of the updated website information.

K Lore Ltd November 2005 – July 2007
I was not a contractor, I was doing freelance work after being made redundant and trying to launch my own software house. At the start of my freelance work / unemployment I had limited .Net experience having been a VB6 and windows C/C++ developer. My freelance work gave me the opportunity of finding permanent work.

www.jetspotterypainting.co.uk
XHTML 1.0 / CCS level 2.1 / DHTML website including developing a flash movie.
Marketing website for my wife's pottery painting business. The site achieves a top google position in Bromsgrove, Worcester, Redditch and Birmingham and the world. Javascript has been used to add keyboard (disabled) support to the site's menu by pressing the ALT key. The javascript supports all major browsers. The development was originally done in JQUERY but it was only slightly more complex to just use javascript. Not using JQUERY avoided the need for a large download.

First Class Learning Centre Management System
.NET 2.0 WinForms C# / SQL Server 2005 Express
After school maths and English programme centre management software for Durham Learning Systems Ltd (a franchisor**).** The software supports student attendance record keeping, manual and automated setting of work, stock usage calculation and the printing of various reports.

Developed a run-time licence validation webservice implemented on www.rentedsoftware.co.uk. Webservices were used to obtain a new GUID token each time the software runs, then another to verify that the client had received the token. The GUID is saved by the client and passed to the webservice the next time the software runs to ensure only one version of the software can be run. Supplier, product and user licences are held on a MySQL database on the www.rentedsoftware.co.uk website. A backup licence validation webservice was implemented on www.klore.co.uk, which could be switched on via a secure logon if the www.rentedsoftware.co.uk site went down. ASP.NET test pages implement for ease of debugging.

www.ladybirdcranehire.co.uk
ASP.NET 2.0 C# / XML
Marketing website for the UK number one independent supplier of self-erecting cranes. Search engine meta data is read from a XML file to provide a single point of access and a fast response time. A password protected user update-able news page is provided which uses the Infragistics HTML Editor control (.Net 2.0). Achieved a high page one google position. Site visit, requirements gathering and written proposal.

www.firstclasslearning.co.uk
ASP.NET 2.0 C# / MySQL 5.0
Marketing website for an after school maths and English tuition franchise. The site includes a link to a MySQL database that contains details of each franchisee's centre. Includes a password-protected logon for each franchisee to maintain their own home and news page (.Net 2.0). Achieved a high page one google position. Customer visits, requirements gathering, contract agreement, written proposals and contract.

www.klore.co.uk
ASP.NET 2.0 C#
Personal website describing some of the work I have undertaken and a contact me form. Also includes logon to a backup system to enable/disable a licence webservice backup service for www.rentedsoftware.co.uk.

http://www.kumonbromsgrove.co.uk
HTML 4.1 Frameset based website
Marketing website for my wife's after school maths and English franchise business. Now replaced by the www.firstclasslearning.co.uk business. Achieved a high page one google position.

April 2001 to October 2005 - Lanner Group
Appointed software quality manager, responsible for the company's quality systems and ISO 9001 registration.

International Drug Trial Stock Simulation GSK Intranet
ASP.NET 1.1 C # Oracle 9.x
A drug trial simulation system used by Glaxo Smith Kline on their intranet. Data was captured from users in many countries using ASP.Net 1.1 and Infragistics technologies. Configuration and results data was stored in Oracle. Processing was integrated with a simulation engine that output results back into Oracle. Results were displayed back to users using ASP.Net 1.1 / Infragistics technology. Oracle stored procedures were used for reporting and were developed using Toad.

Popkin System Architect and MS Visio Addin - Business Simulation & Modeling Tool
C# .NET 1.1 and XML DOM
I worked with Popkin Software to gather requirements and define and develop an interface between their System Architect tool's ability to produce IDEF3 diagrams and Lanner Group's Witness simulation tool. Developed a similar add-in for Microsoft Visio. The add-in used XML for data storage. Software integration was through a layered software architecture (.Net 1.1).

Modifications To "Witness" Simulation Package Software
 C/C++ Graphical Grouping / Ungrouping / Regrouping & "Locking Mode" C/C++.
Smooth animation / icon rotation C/C+.
Simulation / animation configuration parameter setting and saving (Toolbars and MFC dialogs) C++. Minor enhancements / bug fixes. Data was saved as XML and various other formats. C/C++ definition of XML Schema and XML data generation for simulation reporting. Reporting using C++. Software design documentation.

Food Production Planning System
VB6 / SQL Server 2000 / 7.0 / Crystal Reports 9 (Originally MS Access)
Support modification and out of hours dial in support of a system supplying UK supermarkets for planning the manufacture and delivery of food items. The system included a planning board for monitoring finished good and raw material stock, out of date stock, forecast sales and customer's orders and order dispatches. I undertook site visits and produced change request documentation, functional and technical design documentation as well impact and risk assessments and cost estimates.

Conversion of an MS Access / Sql Server T-SQL based planning system to an object orientated three tier Visual Basic / SQL Server application using Crystal Reports for reporting. Reduced T-SQL use gave a large performance increase. Conversion of approximately twenty-five MS Access reports to Crystal Reports. Most reports developed in an .rpt / viewer style. A number of the reports were developed to: receive parameters at run time, use a Visual Basic datasource, change the datasource at run time, or include sub reports.   Various configurable complex algorithms were used to conduct planning. Updated middle tier business rules on zeroing out of life stock. Implemented historic data purging. Reporting on over due orders using Crystal Reports.

Three Tier Uranium Enrichment Planning System
VB6 / MS Access

Developed a system to assist planning across a multi-site multi-database operation. A large (five man year) object orientated development. Development of a number of OCX components including a grid control. Development of the projects validation /error handing strategy. Design and test documentation.

Seat Planning System
MS Excel 97 / 2000 / VBA
Lloyds TSB call centre seat planning system upgrade using a backend simulation engine to plan the hot desk seating of call centre operatives. Site visit.

October 1996 to April 2001 Crown Computing

Bar Coded Data Capture / Printing Software 'C' / C++ / VB5-6
Many projects to capture data from a variety of sources, print bar codes and update various systems. Many site visits to capture requirements then writing specifications, liaising with customers, software development and installing software on site and training of users. ISO9001 TickIT documentation.

http://bs.crowncomputing.co.uk HTML Classic ASP
Development using MS-Frontpage /Notepad (HTML 4.0 / ASP / VBScript), PaintShop Pro. A website developed for Crown Computing's bar-coded data capture and system integration department.

Automotive 3 Tier Data Capture System VB 6.0 SQL Server 7.0 MTS / Client Server / 'C'
Three tier client server data capture application using Microsoft Transaction Server SQL Server 7.0 and DCOM / ADO technology. We use a MDI and Grid for data capture of load sheets / load sheet printing / reprinting / history / status enquiries and deleting data. Implemented a batch hand held scanner data capture system. AS/400 integration interface. Responsible for project effort estimation, technical design, training and supervision of a new graduate, on site installation and training of users.

FMCG Radio Frequency Hand Held Data Capture System 'C' / HTTP / TCP/ IP Sockets
Project's technical design, training and supervision of two new graduates, hand held data capture software. HTTP handheld radio frequency communication interface running over TCP/IP to capture transactions onto a web server, on site installation and training of users.

Symbol Hand held - Barcode Data Capture Library / Framework 'C'
Developed a framework consists of a library of reusable C functions and modular 'C' components.
The framework development improved software quality and decreased average project development time from five to three days. Many handheld projects uploading data to AS400 systems.

November 1994 to September 1996 GPT (Now Marconi)
Shlaer Mellor Methodology (similar to UML / OMT) using ASL C and C++ on UNIX.
Generic message passing system design and development. Design and test documentation.

March 1991 to September 1993 Tangye Ltd

Master Production Scheduler (£1.5M Scheduled) / material systems manager. Line Manager for the goods in clerk and component storeman. Business analyst system implementations in master production scheduling / rough cut capacity planning / material requirements planning.

November 1988 to February 1991 Teaching Company Associate Tangye Ltd / Birmingham Polytechnic
Implementation of a number of business systems including sales order processing, spares stores, finished goods stores, product costing and management accounts, VAT analysis, assembly shop capacity planning. Investigation and justification of the purchase of lost wax castings and scintered components. As part of this SERC/DTI funded training scheme I spent 10% of my time training in various aspects of business.

Quality system ISO9002 audit and procedure implementation. Systems fit and design and implementation documentation. User training and user documentation.