

CURRICULUM VITAE - Andrew Toone.

SUMMARY

Objective Providing Agile contract skills in software architecture, development and online technologies. Based in Cambridge but able to work further afield (e.g. London) for appropriate projects. I am a software engineer that works well in teams and can take on team lead roles. I have good experience of the full project lifecycle and enjoy picking up new technology and development environments quickly.

Skillset

- Java 7, J2EE, Spring, Storm, Hadoop, Hibernate, REST, JDBC, JSP, Servlets, Junit, Mocking, Swing, RMI, JNI,
- Data - Oracle, SQL, MySQL, Cassandra, Hbase, ActiveMQ
- O/S - Unix (Linux, Solaris, OS X), Windows, NT
- Web – AJAX, JQuery, JavaScript, XML, WSDL, WML, CSS, HTML 5
- Other - C, C++, CGI, Perl, UML, Delphi, Assembler

1. PERSONAL

Name	Andrew Donovan Toone	Address	Lock Farm, Bottisham Locks, Waterbeach CB5 9LN
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2. EXPERIENCE

April 2013 – July 2013 [Java](#), [Storm](#) [Trident](#), [Spring](#), [Cassandra](#), [Hadoop](#), [Hbase](#),
Senior Developer, MetaBroadcast [ActiveMQ](#) (Contract)

Andy led the creation of a realtime social analytics platform with a Lambda architecture based on Storm Trident and Hadoop. The platform provided realtime data on social media and on-site activities and scaled in an Amazon Web Services environment to support global broadcasters.

The project included co-ordination of a series of distributed event sources, including on-site activity, Twitter, Facebook and custom clients through an ActiveMQ JMS layer. Persistent storage was provided through Hbase and Cassandra and long-term analysis implemented in Hadoop. As part of the project, Andy submitted an improved Trident JMS component to the Storm open source community.

January 2013 – March 2013 [Java](#), [Android](#) (Contract)
Senior Developer, Feersum UK TV Guide

The Feersum UK TV Guide was developed to deliver responsive and offline access to broadcast schedule information through a native Android Application. Andy designed and developed the complete application, from conception through to a successful launch on the Google Play store, where it has received excellent reviews and maintains high user retention.

June 2011 – Dec 2012 [Java](#), [J2EE](#), [Antlr](#), [ASM](#), [C](#), [JNI](#), [Java2D](#), [Swing](#), [OSGi](#)
Senior Developer, GE Smallworld [\(Contract\)](#)

GE Smallworld provide the Magik development environment for Geographic Information Systems (GIS) tools. Andy joined a small Agile team porting the Smallworld Magik runtime and Dynamic Language to run under Java 1.7 with JSR-292. Work included compiler (Antlr, ASM), runtime, legacy library support (C and JNI), graphics subsystem (Java2D, Java3D, Swing), build environment (Ant, Ivy, Mercurial, JUnit, Mockito, Jenkins), deployment (OSGi), database (JDBC driver implementation) and web services (Tomcat, Jetty, GeoJson).

Feb 2011 – May 2011 [Java](#), [J2EE](#), [BlackBerry OS](#), [Android](#), [JUnit](#), [JSON](#), [XML](#)
Senior Developer, ITHR / LMAX [\(Contract\)](#)

LMAX have created a complete financial exchange platform. They provide FX and CFD trading through both web and mobile applications, and via a public API for automated and remote trading clients.

As technical lead, Andy took over a proof of concept mobile client application and delivered a robust, tested and complete trading tool for BlackBerry devices. The work included implementing a best practise continuous integration and testing environment (Git, Hudson, JUnit), refactoring to allow cross platform use of core libraries (Android, JSON, Web services) and Agile/Scrum project planning and estimation.

Nov 2010 – Jan 2011 [Java](#), [J2EE](#), [Spring](#), [Hibernate](#), [EHCACHE](#), [AJAX](#), [JSP](#), [JSTL](#), [SQL](#), [JUnit](#)
Senior Developer, ITHR Consulting/Vodafone [\(Contract\)](#)

Andy led a new team creating applications for Vodafone's Russian partner, MTS. The team was able to design, develop, test and release a range of applications within a very short time frame to support the launch of MyWeb at MTS. Using Scrum methodology and BDD, each application was built around a core framework allowing over twenty new applications to be released in under sixteen weeks.

May 2009 – Oct. 2010 [Java](#), [J2EE](#), [AJAX](#), [WSDL](#), [SQL](#), [Hibernate](#), [Tapestry](#), [JUnit](#), [Selenium](#)
Senior Developer, Proquest Information & Learning Ltd. [\(Contract\)](#)

At Proquest Andy joined an Agile team following Scrum methodology to develop their new publishing platform. The project, based on the Tapestry 5 framework, provided a robust, highly available search platform covering a large and complex cross-product textual (FAST) dataset. Test Driven Development was built on CruiseControl, Junit, EasyMock and Selenium. Client facing components used AJAX and Prototype to deliver a sophisticated and responsive user interface.

November 2008 – April 2009 [Java](#), [J2EE](#), [SQL](#), [EJB](#), [Hibernate](#), [Swing](#), [JUnit](#),
Senior Developer, Cancer Research UK. [XML](#) [\(Contract\)](#)

Andy designed and implemented an application and framework for tracking and combining multiple data sources within a research project. Using an underlying MySQL database accessed through a combination of Hibernate and dynamic JDBC connections, the tool identified data generated by researchers and bioinformaticians and combined it into a coherent whole. This allowed data collection, review and analysis to be carried out independently and then viewed within the context of the project.

October 2007 – October 2008 [Java](#), [J2EE](#), [SQL](#), [Struts](#), [AJAX](#), [Javascript](#), [JUnit](#), [XML](#),
Senior Developer, Abcam Ltd. [\(Contract\)](#)

Andy acted as mentor to a team who were new to J2EE development and keen to develop a system that followed best practises to provide a custom lab management service.

3. PREVIOUS

July 2006 – May 2007 Senior Developer, Tektronix Cambridge Ltd.	Java, Swing, JNI, RMI, JUnit, XML, J2EE, SQL (Contract)
Test framework for real time video analysis toolchain.	
Feb 2006 - May 2006 Senior Developer, Datanomic Ltd.	Java, J2EE, Spring, Quartz, XML, SQL (Contract)
Development of Job Management tools for dnDirector Data Quality analysis platform	
Mar 2005 – Jan 2006 Senior Developer, Proquest Ltd.	Java, J2EE, Struts, XML, Perl, HTML & Javascript (Contract)
Online access to OpenText and FAST document archives, data pre-processing.	
Mar 2004 - Dec 2004 Senior Developer, Atos Origin Ltd.	Java, J2EE, Struts, XML, MS SQL, HTML & Javascript (Contract)
Timesheet, purchasing and expenses system supporting nine thousand employees.	
Feb 2003 - Dec 2003 Back Office Systems, KBC Financial Products Ltd	Java, C++, Perl, XML, Sybase, Oracle, SQL (Contract)
Tools for back office trades management, analysis and legal compliance.	
Nov 2002 – Feb 2003 Senior Developer, Digital Scientific Ltd.	Java, Swing, JDBC, JNI, XML, C, C++ (Contract)
Enhancements to SmartType Genetic Karyotyping software.	
Aug 2001 - Oct 2002 Feersum Technology Lead Developer.	Java, Swing, HTML, C, RSA, CGI (Contract)
Java-based IDE for PIC microcontrollers.	
Nov 2000 - July 2001 Senior Developer, Xerox Mobile Solutions.	Java, SQL, XML, HTML, WML (Contract)
Development of Xerox mDoc mobile document platform.	
Mar 2000 - Oct 2000 Senior Developer, MobileAge Technology Ltd.	Java, Oracle 8i, C++, HTML, XML, UML (Contract)
Distributed messaging service and toolkit for secure online and mobile applications.	
June 1999 - Feb 2000 Java Developer, Brokat Ltd..	Java, JavaScript, HTML, UML (Contract)
Launch version of Smile online banking service for the Co-operative Bank.	
Aug 1998 - April 1999 Java Developer, Element 14 Ltd.	Java, JavaScript, HTML (Contract)
Test and validation of Java and Javascript implementations on in-house platforms.	
Nov 1997 - July 1998 Research developer, General Information Systems Ltd.	Java, Delphi, C, SQL, HTML
Technology demonstrator for GIS' Smart card technology.	
April 1994 - Nov 1997 Senior Engineer, Generic Technology Ltd.	C, Delphi, SQL, Magik (Permanent)
Smallworld GIS and Magik. Billing systems components (Geneva platform)	
Feb 1992 - April 1994 Lead Programmer, Psygnosis Ltd.	C, Assembler (Permanent)
Development of interactive entertainment titles and tools on a range of platforms.	

4. EDUCATION

1988-91: Imperial College of Science, Technology and Medicine, University of London.

BEng. (Hons) in Computer Science - Second Class, Associate of City and Guilds Institute.

Final Year Courses : Computer Graphics Programming, Software Engineering, Human-Computer Interaction, Networks and Distributed Systems, Economics, History of Technology

Group Project in Computer-Graphic Animation.

Individual Project in Optical Font Scaling, performed with Monotype Plc.

1983-88: King Henry VIII School, Coventry.

1986: 'O' Levels : English Language(B), English Literature(C), French(A), Mathematics(A), Physics(A), Chemistry(B), Design(B), Biology(A), Computer Studies(A).

'AO' Levels: Additional Mathematics(B)

1988: 'AO' Levels : General Studies(C).

'A' Levels: Mathematics(B), Physics(B), Additional Mathematics(D), Design(B).

5. OTHER SKILLS AND INTERESTS.

I carry a full drivers licence. My hobbies include managing a self-build home and renovating a 17th Century barn, maintenance and repair of my car and I am involved in vintage car racing. I am a member of MENSA and the Lotus owners club and enjoy cinema, theatre and reading. If I ever have any spare time I like to cook Thai meals and attempt to grow chilli plants.

6. REFEREES.

Available on request