

CURRICULUM VITAE - Andrew Toone.

SUMMARY

Objective Providing Agile skills in software architecture, development and online technologies.

Based in Cambridge but able to work further afield (e.g. London) for appropriate projects. Andy is a software engineer that works well in teams, as a mentor or lead. He has good experience of the full project lifecycle and enjoys picking up new technology and development environments.

Skillset

- Java 8, Spring, Spring Boot, Microservices, AWS, Android, REST, JUnit
- Data - Oracle, SQL, MySQL, Cassandra, Couchbase, Hbase, Kafka
- O/S - Unix (Linux, Solaris, OS X), Windows, NT
- Web – JavaScript, ES6, React, JQuery, AJAX, CSS, HTML
- Other – CI/CD, Git, Bitbucket, C, C++, CGI, Perl, UML, Delphi, Assembler

1. PERSONAL

Name	Andrew Donovan Toone	Address	Lock Farm, Bottisham Locks, Waterbeach CB25 9LN
Nationality	British	Telephone	01223 862146 0780 1104989 (mobile)
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2. EXPERIENCE

September 2019 – August 2020 **AWS, Java, Spring Boot, Python, Flutter, React, SQL, CTO, ElectronRX** **JIRA, Bitbucket (CTO)**

ElectronRX is a deep tech company developing novel digital healthcare solutions. As CTO Andy devised the strategy and architecture for highly scalable cloud based data collection and patient diagnosis. This was successfully implemented to support both research and trials of innovative telemedicine software. In addition, Andy introduced team management and reporting structures to the company, as well as Agile practices in order to support continuous delivery of web, mobile and custom hardware based applications.

April 2018 – July 2019 **Java 8, Spring Boot, React, MySQL, Android, Senior Developer, Cambridge Assessment** **Web, REST, jQuery, Payment systems (Contract)**

Andy joined the Digital and New Products Division to develop new tools and online services for student assessment. During this time he prototyped and built both student facing apps and internal services for grading and student development.

August 2016 – Present **Java 8, Spring Boot, MySQL, Android, Web, REST, Senior Developer, UAV Toolbox** **jQuery, Payment systems (Product)**

Andy designed and delivered a complete platform for UAV (drone) data management. It provides mapping, video playback, thermal image editing and telemetry analysis.

UAV Toolbox is developed with Sping Boot, Spring JPA, MySQL and REST APIs and integrated with third party services including Braintree payment gateway, Google Maps and Dark Sky weather services.

July 2017 – February 2018
Project Lead, Kynesim

Amazon Voice Services, AWS IoT, C/C++, Python
(Contract)

Overseeing an international team, Andy led the release to production of an innovative home automation appliance. He co-ordinated product specification, development of new components, hardware compliance testing, integration with third party apps and services and production release of both hardware designs and embedded software.

August 2013 – July2016
Senior Developer, Expedia Inc

Java 8, Spring, Kafka, Cassandra, Docker, Hadoop
(Contract)

Andy helped drive Expedia's commitment to cutting edge, real time scaleable data.

He delivered real time front page user recommendations to the Hotels.com website that generated significant revenue over previous services. He also led the architecture and implementation of a live user service tracking sessions globally, enabling customer segmentation, dropped session and other marketing initiatives across the company. He mentored new members of the team and led the introduction of technologies that could deliver reliable and maintainable services.

April 2013 – July 2013
Senior Developer, MetaBroadcast

Java, Storm Trident, Spring, Cassandra, Hadoop, Hbase,
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.

January 2013 – March 2013
Senior Developer, Feersum UK TV Guide

Java, Couchbase, Android (Product)

The Feersum UK TV Guide was developed to deliver responsive and offline access to broadcast schedule information through a native Android Application. Andy led development 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
Senior Developer, GE Smallworld

Java, J2EE, Antlr, ASM, C, JNI, Java2D, Swing, OSGi
(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) and web services.

Feb 2011 – May 2011
Senior Developer, ITHR / LMAX

Java, J2EE, BlackBerry OS, Android, JUnit, JSON, XML
(Contract)

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. This 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.

3. PREVIOUS

November 2010 – January 2011 Senior Developer, ITHR Consulting/Vodafone	Java, J2EE, Spring, Hibernate, EHCACHE, AJAX, JSP, JSTL, SQL, JUnit (Contract)
Mobile apps and service development for Vodafone's Russian partner, MTS	
May 2009 – October 2010 Senior Developer, Proquest Ltd.	Java, J2EE, AJAX, WSDL, SQL, Hibernate, Tapestry, JUnit, Selenium (Contract)
Publishing platform based on Tapestry, FAST textual search and AJAX	
November 2008 – April 2009 Senior Developer, Cancer Research UK.	Java, J2EE, SQL, EJB, Hibernate, Swing, JUnit, XML (Contract)
Research data service for bioinformaticians	
October 2007 – October 2008 Senior Developer, Abcam Ltd.	Java, J2EE, SQL, Struts, AJAX, Javascript, JUnit, XML, (Contract)
J2EE based lab management system	
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, JavaScript, HTML
(Contract)
Java Developer, Element 14 Ltd.

Test and validation of Java and Javascript implementations on in-house platforms.

Nov 1997 - July 1998 Java, Delphi, C, SQL, HTML
Research developer, General Information Systems Ltd.

Technology demonstrator for GIS' Smart card technology.

April 1994 - Nov 1997 C, Delphi, SQL, Magik
(Permanent)
Senior Engineer, Generic Technology Ltd.

Smallworld GIS and Magik. Billing systems components (Geneva platform)

Feb 1992 - April 1994 C, Assembler
(Permanent)
Lead Programmer, Psygnosis Ltd.

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.

Andy carries a full drivers licence. His hobbies include managing a self-build home and renovating a 17th Century barn, maintenance and repair of his car and he is involved in vintage car racing. He is a member of MENSAs and the Lotus owners club and enjoys cinema, theatre and reading. If he ever has any spare time he likes to cook Thai meals and attempt to grow chilli plants.

6. REFEREES.

Available on request