Neil Bartlett

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Born: 25 September, 1975 — U.K.
Nationality: British

Technical Skills Summary

Languages	Java (18 years) · JavaScript · TypeScript · Haskell · Scala · SQL · C
Middleware	OSGi · JavaEE · Spring · JMS · AMQP · REST · SOAP
Web	Angular · Polymer · Vaadin · HTTP2
GUI	Swing · SWT · JFace · Eclipse RCP & Plug-ins
Data	Oracle · SQL Server · MySQL · JDBC · Hibernate · JPA · Hadoop · MongoDB
Tools/Misc	Eclipse · Git · Docker · AWS (EC2, S3) · Subversion · LaTeX

Career History

2011 – present   *Principal Consultant – Paremus Ltd.* In 2011 I joined Paremus Ltd as Principal Consultant. Paremus is the vendor of "Service Fabric", a dynamic cloud platform that automates deployment and management of distributed applications. I work directly on the core product, enhancing it with additional features and modernising or replacing large legacy subsystems. My current work is on integrating Service Fabric's orchestration and configuration capabilities with Docker. I also provide consulting and training services directly to Paremus customers, most of whom are under NDA but include a credit reference agency in New York; a well known SaaS vendor in San Francisco; a tier one investment bank in London; a leading European telecoms company; and a US federal agency.

2003 – 2011   *Freelance Consultant.* I worked for several years as an independent consultant, developer and trainer, specialising in advanced Java, OSGi and Eclipse. My work included the following clients and projects:

04/2010 – 2011   *HaXe Plug-in for Eclipse – Powerflasher GmbH.* I was hired to build an Eclipse-based development environment for the haXe programming language, including on-the-fly error checking, semantic completions, building and launching.

12/2008 – 04/2010   *JavaFX Plug-in for Eclipse – Sun Microsystems, subsequently Oracle.* I was hired by Sun

to work on their JavaFX tooling for Eclipse. My responsibilities covered all design and development for the new plug-in. The results of my work were showcased at JavaOne 2009 and the Oracle keynote at EclipseCon 2010.

07/2008 – 11/2008   Sabbatical – worked on open source projects and my book *OSGi in Practice*.

01/2008 – 06/2008   *New Equities Ordering System – JP Morgan Chase*. I worked on the New Equities Ordering System (NEO) which represented a significant upgrade to JPMC's equities trading infrastructure. I joined as an expert in OSGi, Eclipse RCP and Spring, and helped to re-architect the application using modular practices. This project concluded as a result of JPMC's acquisition of Bear Sterns.

04/2007 – 01/2008   *Athena Trader – Aegisoft LLC*. Aegisoft was a New York-based software vendor with a range of algorithmic trading and exchange simulator applications. I worked on enhancements to the trading application in the area of FX support and trading data visualisation. The application was written in Java Swing and made extensive use of multi-threading in order to keep the GUI responsive, and to continually update the display as external data were received (Aegisoft was later acquired by Thomson Reuters).

10/2006 – 05/2007   *Vehicle Manager – Goldman Sachs*. I worked in the Structured Products group to develop a new "Vehicle Manager" application. This application supports both physical and synthetic Fund Derivatives deals, by recording and managing the complex relationships and investment flows involved between Goldman Sachs, the Special Purpose Vehicles (SPVs), the investors, and the Funds. I joined the team as an Eclipse RCP expert, building the RCP client and mentoring the other developers.

03/2005 – 10/2006   *Credit Asset Management – Dresdner Kleinwort Wasserstein*. I was the lead developer on a large project arising from the merger of DrKW into its parent Dresdner Bank. My team supported the credit asset managers who were responsible for managing the loan book. Since Dresdner Bank's loan book was far larger than Dresdner Kleinwort's, this required a substantial scaling-up of all activities.

02/2003 – 02/2005   Other engagements as a freelance consultant: *EU Claims Management Project – Atos Origin. Security Borrowing and Lending – WestLB AG.. "Eclipse" Point-of-sale System – Dixons Group plc.. Satellite comms management system – Logica on behalf of European Space Agency*.

07/1999 – 02/2003   *Professional Services Consultant – CNT Ltd.*[1]. CNT was an Enterprise Application Integration product vendor. Its main product, E/A (now known as Jacada Host-Fuse), was a platform for the integration of legacy applications running on mainframes and AS/400s. I used E/A to develop integration functionality on client

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[1]In 07/2001, the E/A division of CNT was acquired by Jacada Inc. In 10/2001, Jacada closed its European office and I joined Adegis Ltd., a company started by former CNT executives to serve the European market for CNT and Jacada products. My role remained essentially unchanged.

sites, both in short pre-sale Proofs of Concept and in full-scale projects, and also delivered product demos, training and production-quality enhancement modules.

06/1998 – 07/1999 *System Engineer – The Smith Group*. I worked as a consultant at British Gas. The Smith Group is now known as Detica.

Education

1998 MEng in Systems Integration, University of Manchester (Computer Science).

1997 BSc Hons (2:1) in Systems Integration, University of Manchester (Computer Science).

1994 4 'A' levels in Mathematics, Further Mathematics, Physics and Chemistry; all grade A.

1992 10 GCSEs including Mathematics and English (9 A grades, 1 C).

Open Source Portfolio

Bndtools. In 2010 I started developing Bndtools, an Eclipse development environment for OSGi, and I remain the lead developer amongst a team of around seven core developers from various companies. Bndtools is now one of the most popular environments for working with OSGi and has been adopted by the OSGi Alliance itself. It ranks 110 (out of ∼1200) in all-time downloads from Eclipse Marketplace.

Eclipse Equinox, the OSGi implementation used as the basis for WebSphere Application Server, SAP NetWeaver, SpringSource dm Server (Virgo) and Eclipse. I am an individual committer member of the Eclipse Foundation.

JavaFX Plug-in for Eclipse, lead developer.

Technical Interests

I am interested in modular systems and solving the problems of coupling and dependency management. In connection with this, I am considered an expert in OSGi, the dynamic module system for Java. I deliver training courses on OSGi, have written several articles on it and am currently writing a book, "OSGi in Practice". A draft preview is available from my blog at http://njbartlett.name/osgi-book.html. I regularly speak at conferences including EclipseCon, QCon, OSGi DevCon, JAX, various Java user groups etc.

Recently I have been involved with the upcoming Java Platform Module System (JPMS) expected in Java 9 (aka "Jigsaw"). I am a member of the Expert Group for JSR 376 that will define the new specification, and I am also working with the OSGi Alliance technical committee to find pragmatic ways to integrate these

platforms[2].

I am also interested in the challenges presented by concurrent and parallel programming as multi-core systems become ubiquitous, and especially in the application of functional programming techniques to the problem. I founded the London Haskell User Group and ran it for several years, though this responsibility has now passed to others.

Other Information

Although much of my non-working time is spent with my children, I love classical music and attend live concerts when possible. I am an amateur trail runner, and enjoy occasional travel.

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[2]N.B.: I am required to continue my involvement with these activities through 2017, and they occupy approx. 2-3 hours per week.