

Martin McCallion

Senior Java Developer
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Summary

I am a senior Java developer with nearly 30 years of experience in developing banking software. As well as Java I have had used Python, JavaScript, SQL (all the major database platforms), JDBC, Spring, Struts, HTML and CSS. I am a strong believer in the agile approach to development, having been working in a scrum-based team for close to five years.

I am a proponent of test-driven development (TDD). I always prefer to write unit tests first when I can. As well as that I am experienced with CI tools such as Hudson and Jenkins, Ant and Maven for builds, and version control systems from CVS through Subversion to Git. I like writing documentation.

Skills

Java

Java 8: Banks being fairly conservative about upgrading runtime environments, I haven't had the opportunity to use Java 8 commercially yet, but I have used it in personal projects. I'm excited about what we'll be able to build using streams and lambdas and so on.

Java 7 and Before: We adopted Java 7 when it became practical to do so. And I used all previous versions from at least 1.3. The biggest change in all that time was the introduction of generics, which allowed vastly increased type-safety for items in Collections in particular.

Java EE and Associated Technologies: Most of my work in the last several years has been in a **JEE** application, including **EJBs**, **JSPs**, **servlets**, and so on. I have used **JavaMail** and of course **JDBC** extensively.

Databases

I am an expert with **DB2 400**, and have experience with **DB2 LUW**, **Oracle**, **MS SQL Server** and **MySQL**. Also **Liquibase** for schema management.

Web Front-end Technologies

Fair knowledge of **JavaScript**, **HTML** (including **HTML 5**) and **CSS**. I built a proof of concept using **Twitter Bootstrap**.

Scripting Languages

Shell scripting using **Bash** on **Linux** and in **Cygwin**; Windows **batch files**. Also some knowlege of **Python**.

Documentation

I believe good documentation is as important as good code. I have worked with **Markdown**, **DocBook**, **Confluence** and other wikis, and of course all the major office tools. As well as writing comprehensive and clear documentation, I have presented to an international team.

Career history

Contract: Senior Developer at BJSS; August 2017 - Present

What I'll be doing there remains to be seen, but when I know, I'll put it here.

Contract: Senior Developer at UniCredit; August 2016 – May 2017

Supporting the implementation of Misys Payment Manager (MPM) and developing add-ons for it. Helped to get MPM installed in one part of the bank's business, while developing add-on functionality (in Java) for it. Drove a project to install it in another part of the business, along with the opening of a new branch in a new territory. Developed some utilities to aid in the deployment of projects to their WebSphere environment (in Python). Introduced version control (using Subversion) to the project.

Senior Software Engineer at Misys; 2011 – June 2016

Senior developer and scrum master working on [Payment Manager/Message Manager](#), Misys's **JEE** web application for viewing and manipulating financial messages. Worked on all parts of the product, from the **database** right up to the **GUI**. Key contributor to architectural decisions on the direction of the products.

Recently modernised the process of managing customer database schemas, going from four sets of scripts (for **DB2 LUW**, **DB2 for System i**, **Oracle** and **Microsoft SQL Server**) to a single set using the **Liquibase** open-source tool. Wrote comprehensive in-house and customer-facing documentation on the use of the tool; wrote and gave a presentation on its use; and mentored other team members as they became familiar with it. This all resulted in both an improved development process, and easier installation for clients.

Created a proof of concept for a new version of the user interface using a **Twitter Bootstrap**-derived layout, which showed that the UI could be modernised.

Also maintained Meridian Replication, which automatically extracts data from any DB2 for System i schema. This is written in a combination of **RPG**, **CL** and **C** on the **System i** (formerly **iSeries** and **AS/400**). Recently transferred this responsibility to an overseas team, which included writing training material and presenting it remotely to people who were unfamiliar with the product.

Senior Software Engineer at Misys; 1999 – 2010

Senior Java development and support engineer working on Meridian, Misys's message-based middleware product, which provides mapping and routing of messages between disparate systems, such as databases, **JMS** queues, TCP/IP sockets, and flat files.

Wrote many features for the product, including its email adaptor, using the **JavaMail** API.

Senior Software Engineer at Misys; 1997 – 1999

Senior developer on the Midas **APIs** project.

The Midas APIs allowed Misys's major international banking product to accept data from external sources.

First developer on this project, seeing the product through to delivery. Designed and wrote major sections of the software infrastructure. Championed the use of **RPG IV** and **ILE** techniques, including **Service Programs**. This enabled a modular structure to be used, giving ease of maintenance and allowing a high degree of code reuse.

Software Engineer at Midas Kapiti International; 1992 – 1997

Code overseer in the Midas Core Management Team. Managed the delivery of all developments into the core Midas product. Created utilities to automate the tasks involved, and documented the procedures. Such documentation became part of the company's ISO 9001 document set.

Established the Core Management team as a centre of expertise in all aspects of AS/400 development and systems administration.

Subsequently added responsibility for the Global Manager/Risk Vision product. This is a client/server Risk Management product based on Unix systems and PCs. Learned about managing **Unix** systems, **Sybase** and **SQL**, as well as **TCP/IP** and **Ethernet** networking. Had technical responsibility for the hardware and software setup at a number of client demonstrations.

Prior Experience

Various development and support roles with BIS Banking Systems, working on Midas. Started as a trainee programmer and rose to software engineer.

Education and Training

BSc (Hons) Physics – University of Edinburgh

Diploma in Literature and Creative Writing – Open University.

Various professional training courses, including Java, EJBs, project management, agile development with Scrum.

Voluntary

Maintain the website and other online presence for the British Science Fiction Association (BSFA), a non-profit organisation for SF enthusiasts. <http://bsfa.co.uk/>.

Other interests

Writing (fiction and blogging), reading, music, films.