

# Curriculum Vitae

Steph Meslin-Weber

Email: [steph@tangency.co.uk](mailto:steph@tangency.co.uk), Web: <http://stephmw.org>

Senior Java Architect and software engineer with strong mission-critical desktop and mobile experience.

## Technical

---

### Skills:

- Java (Core, J2SE 1.2 → 1.6, J2ME, expert, 10 years, Sun Certified Java Programmer), Embedded C (intermediate, 2 years), Others (C++, Shell, SQL, Python, intermediate, 12 months)
- Object Oriented Development, Object Oriented Analysis
- Agile Development: Extreme programming, Test-Driven Development, UML
- Usability: UI Design, Interaction Design, UX Design

### Platforms:

- Host: Windows, Mac, Linux
- Target: Linux (x86, ARM), Nokia Series 40 (ARM), SavaJe, Android

### Tools:

- Databases: PostgreSQL, MySQL, H2, SQLServer, Access
- Productivity: Lotus Notes, Outlook
- Continuous Integration: Bamboo, Hudson
- Build: Maven, Ant
- Tools: LDAP, JFreeChart, Balsamiq IntelliJ IDEA, Eclipse, EclipseME, Netbeans, VC++
- Issue Tracking: JIRA, Lotus Notes, Bugzilla, Remedy, Mantis
- Source control: SVN, CVS, ClearCase, Continuous/Synergy, BitKeeper, SourceSafe
- Debugging: Eclipse, Serial, Musti, JDWP, FastTrace, Phoenix(ARM), Static Analysis
- Testing: J2MEUnit, JUnit, Cobertura
- Linux Distributions: Ubuntu, Debian, RedHat, OpenEmbedded, OpenMoko

## Employment

---

**Java Developer (permanent)**, RiverMuse UK

July 2009 - July 2010

Architected, designed and developed the greenfield next-generation command & control Swing & OSGi-based GUI client for a best-of-breed network management software provider to large-scale network operators. Principal developer & architect for the Java Enterprise Desktop (JED) product in the RiverMuse Pro enterprise solution, responsible for two junior developers.

The JED product is a command & control GUI that interfaces to the RiverMuse Pro databases, realtime event streams and globally located network monitoring probes, allowing live network monitoring, fault diagnosis and resolution. JED is a key offering of the RiverMuse Pro solution and market positioning.

### **Responsibilities:**

- Architected new OSGi pluggable GUI infrastructure using UML and iPOJO
- Architected scalable internal intra-OSGi UI notification bus
- Designed and developed greenfield GUI with Swing, OSGi and Java Webstart
- Developed low-latency live-feed client-side data views and tables
- Developed localised rolling data caches for live data using Java Concurrency APIs
- Developed key UI components to client specifications
- Developed charting and analysis visualisation with JFreeChart
- Designed and developed DAO client-side integration for JSON using Jackson
- UI and UX design and implementation
- Refined and implemented key usability features
- Designed new UI features with Balsamiq
- Led and participated full development lifecycle
- Provided production support and development
- Advised, specified and developed application security
- Taught and mentored junior team members on development best-practice
- Recommended tools and process improvements

**Technologies used:** Java 1.6, Swing, JFreeChart, Felix OSGi, Felix iPOJO, JSON, Jackson, HttpClient, JUnit, Java Webstart, Eclipse, Balsamiq, Subversion, Maven, Ant, Hudson, JIRA, Linux, OSX

**Java Developer (permanent), IG Index PLC**

June 2008 – July 2009

Developed, maintained and enhanced internal real-time, high-availability InternetMonitor (IM) trading client (CFD, Commodities and Sports) & control software for a leading Financial spread-betting provider.

The IM tool provides the backbone for consolidated front-office trading on the IG platform for traders as well as providing secure command, control & configuration access to 18 core underlying functional areas of the IG platform infrastructure. The IM tool is key to smooth daily and realtime dealing and maintenance operations.

**Responsibilities:**

- Developed and maintained trading Swing GUI
- Designed, developed and deployed new trader-specified features
- Designed and developed new LDAP-aware security infrastructure for UI client
- Developed high-availability and low-latency GUI components for realtime CFD pricing and information display
- Refactored client-side CFD pricing engine
- Liased closely with front-office for new feature design and development
- Integrated trading client-side UI with IG trading platform
- Developed new features for binary and decimal betting
- Refactored client-side consumption of realtime external pricing streams
- Developed modules for client-side single-sign-on
- Enhanced and refactored Oracle DAO with JDBC
- Enhanced and refactored UI deployment and runtime scalability and performance
- Tested features on multiple platforms and configurations
- Provided 24/7 live production support and development
- Participated in full development lifecycle
- UI and UX design and implementation

**Technologies used:** Java 1.6, Swing, JIDE components, XML, Spring, JUnit, JDBC, Java Webstart, LDAP, IDEA, Balsamiq, Maven, Ant, Bamboo, Subversion, JIRA

**Senior Software Engineer (permanent), Alten UK LTD**  
*Professional Services Provider, various clients, see below*

January 2004 - June 2008

**Technical Consultant (consultant), Automatiks USA**

October 2007 - March 2008

Developed and tested a greenfield in-car navigation and entertainment system for a leading electric car fleet provider.

**Responsibilities:**

- Architected, designed and developed greenfield Swing GUI
- Integrated USB car-controls to Linux platform and Java
- Live demonstrations to business investors
- Onsite and production support and development

**Technologies used:** Java 1.6, Swing, Python, C++, Netbeans, Subversion, Ant, Trac

**Senior Software Engineer** (consultant), Nokia UK

March 2006 - August 2007

Designed, developed, tested and maintained key mission-critical J2ME platform components for S40 Nokia handsets.

**Responsibilities:**

- Development, specification and testing of J2ME Core (JSR-118) LCDUI API
- Application and API development for Nokia handsets using J2ME/C
- Development and integration of S40 Java Platform with Eclipse debugging
- Prototype and development of JDWP J2ME platform
- Development and maintenance of S40 Nokia Eclipse plugin
- Designed, developed and tested new S40 J2ME features
- Provided production support for new handset rollout to Germany

**Technologies used:** Java 1.5, J2ME (CLDC 1.1), Embedded C, Eclipse, EclipseME, Visual Studio, Rational Quantify, Rational Purify, Musti debugging, Cobertura, FastTrace, Phoenix (ARM), Synergy/Continuum, Lotus Notes

**Senior Software Engineer** (consultant), France Telecom R&D UK January 2005 - February 2006

Developed and maintained key UI prototypes, advanced features and concepts for Orange's future handset homescreens.

**Responsibilities:**

- Design and implementation of OMSE UI design using Swing
- Modifications to SavaJe OS for Orange Experience
- Developed J2ME application prototypes for Orange mobiles
- Orange Experience UI implementation and design
- Demonstration of full potential of the OMSE design and of the SavaJe platform

**Technologies used:** Java 1.4, J2ME (CLDC1.1), SavaJe platform, Eclipse, EclipseME, Mantis, CVS, SourceSafe

**Senior Software Engineer** (consultant), France Telecom R&D UK October 2004 - December 2004

Developed and maintained key UI prototypes, advanced features and concepts for Orange's future fully-integrated contacts/location/search infrastructure.

**Responsibilities:**

- Design & development with SavaJe platform using Swing
- J2ME handset application development
- Integration of HSQLDB database into the SavaJe platform
- Staff training: Advanced Java and fault resolution on SavaJe OS
- Requirements capture for Orange Mobile Service Experience (OMSE) UI design

**Technologies used:** Java 1.4, J2ME (CLDC1.1), SavaJe platform, HSQLDB, Eclipse, EclipseME, Mantis, CVS, SourceSafe

**Senior Software Engineer** (consultant), France Telecom R&D      September 2004 - October 2004

Taught and supervised FT staff on standards procedures and J2ME application developments best practice for future best-of-breed Orange UI developments.

**Responsibilities:**

- Staff training: JCP and J2ME Specification Request digest
- Staff training: Advanced Swing on SavaJe OS
- J2ME application prototype development and assessment

**Technologies used:** Java 1.4, J2ME (CLDC1.1), SavaJe platform, Eclipse, EclipseME. Mantis, CVS, SourceSafe, Powerpoint

**Senior Software Engineer** (consultant), France Telecom R&D      January 2004 - September 2004

Developed and maintained core prototypes for Orange's Context-aware and Branded UI development drive to key stakeholders.

**Responsibilities:**

- Development, specification and testing for BUI prototypes using Swing
- Exhibition, presentation and support for BUI prototypes
- Usability and user experience improvements for BUI prototypes
- Extended SavaJe platform for full theming features
- Developed new personal information management protocols
- Mobile OS research and reverse engineering
- Staff training: advanced Java topics including mobile development, Jini and Swing
- Tool development for SavaJe platform
- Full rewrite of core SavaJe platform applications using Swing
- Specification for new features, including UML diagrams

**Technologies used:** Java 1.4, SavaJe platform, Eclipse, Mantis, CVS, SourceSafe

**Software Engineer** (consultant), Retek Information Systems      September 2003 - December 2003  
UK

Developed and refactored mission-critical infrastructure UI for a global retail logistics software provider.

**Responsibilities:**

- API design & implementation for logistics UI and data management tools
- Assessed new software architectures and recommended solutions
- Software maintenance
- AWT UI development

**Technologies used:** Java 1.1, AWT, Eclipse, CVS

**Technical Consultant** (consultant), Alivero UK LTD

January 2003 - July 2003

Developed and extended a device platform to provide key kiosk functionality for a medical device provider.

**Responsibilities:**

- Native library customisation, platform integration using Qt and J2ME PP
- Development and testing of kiosk functionality

**Technologies used:** Java, J2ME, PersonalProfile. C++, Qt, Netbeans, CVS, Linux**Software Developer** (permanent), Riversoft PLC

March 2001 - October 2002

Developed, maintained and refactored key configuration UI product for this leading network management software provider.

**Responsibilities:**

- Java/Swing development and key performance optimisation and UI improvements
- Custom Swing component and layouting implementations

**Technologies used:** Java 1.2, Swing, Vim, Linux, Solaris, ClearCase**Additional Positions**

January 1996 - August 2001

- Java Developer / Systems Administrator, Undisclosed UK 1.5 years
- VBA Developer, PCP Technologies UK, London UK 2 months
- Volunteer, Save the Children Foundation Charity, London UK 4 years

**Education**

---

Completed 4-year BEng in Electronic Engineering course September 1996 - June 2000  
Queen Mary, University of London, UK

A-Level: Computer Science, Chemistry, AS-Level: Mathematics, September 1992 - June 1996  
Physics

10 GCSEs (A-C), including Maths and English  
Eaglesfield School, London, UK

**Conferences**

---

Exhibitor-stand support and development Salon de l'Automobile, Geneva, 2008

“Introducing FBToolkit, AWT on Framebuffers”, FOSDEM, Brussels, 2004 - 2008

“FBToolkit update”, “Inside Wireless Telecoms”

“Introducing Branded User Interface, using Jardin de l'Innovation, Paris, 2004

SavaJe and Swing-lite”

**Patents**

---

Patent WO/2007/119097: *Method for managing shared data and related device*

Open Source Projects

---

Project	Status	Website
FBToolkit (GUI Library for AWT)	Author	<a href="https://fbtoolkit.dev.java.net">https://fbtoolkit.dev.java.net</a>
BDF and PCF font engine	Contributor*	<a href="http://classpath.org">http://classpath.org</a>
GNU Classpath (core Java library)	Contributor	<a href="http://kaffe.org">http://kaffe.org</a>
Kaffe VM (virtual machine)	Contributor	<a href="http://sources.redhat.com/mauve">http://sources.redhat.com/mauve</a>
Mauve (core class test suite)	Contributor	<a href="http://harmony.apache.org/">http://harmony.apache.org/</a>
Apache Harmony (Java 2 SE)	Contributor	<a href="http://openembedded.org">http://openembedded.org</a>
OpenEmbedded	Contributor	

*\*Free Software Foundation copyright assignment on file*

## Personal

---

Languages: English (Native), French (Native), Hindi (Beginner)

## Interests

---

Travel, Rock climbing (training for CWA and SPA teaching qualifications), Photography, Reading, Skiing

## Travel & Photography

---

2010 – Alaska: Wilderness hiking and camping in Denali National Park, panoramic photography

2010 – Switzerland: Skiing and panoramic photography

2009 – England: Lake District winter hiking and panoramic photography

2008 – Vietnam: Tropical and social photography

2007 – Russia, Mongolia, China: Transmongolian photography

2006 – England: Lake District hiking and photography

2001 – Japan, Australia: Urban photography

1996 – China: Urban and social photography