Senior Developer / Software Manager

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38 years old, married, one child

Skills summary

Management:	Small teams, SCRUM, Kanban, …
Operating Systems:	Linux, Windows, µC/OS II
Programming:	Java, C, Python, JavaScript...
Web technologies:	HTML, CSS, React, XML, JSON, ...
Databases:	MySQL, SQLite, Oracle, LDAP, ...
Tools:	Git, Subversion, Maven, Jenkins, ...
Languages:	French (native), English (fluent)

GE Healthcare: Senior Developer	2019 - 2020

Contributions to a dose tracking solution
- Maintenance and improvement of the data ingestion platform
- PACS (imaging server) indexing tool development
- Code review, quality improvements, in a SCRUM based team

Backend: Java, J2EE, Spring Boot, JMS, DICOM, MySQL, MariaDB
Frontend: React, TypeScript

RS²D: Software Manager	2016 - 2019

Software team management (also helped organize software development in other teams)
- Setup and training for versioning, continuous integration, ticket tracking and quality management tools
- Drafting the (ISO 9001) software quality process, setup and monitoring of key indicators, …
- Established development methods, selected features, objectives and priorities

Tools: Git, Jenkins, Sonarqube, Kanboard

Maintenance and improvement of the software suite (Imaging, spectroscopy, internal development tools)
- Code base clean-up, in terms of quality, maintainability and performance
- Internal architecture, homogenization, simplification and deduplication
- Data acquisition, storage, visualization
- Signal processing (contours, peak detection, integrals analysis, …)
- Sequence and plugin development API
- Graphical user interface and user experience improvements

Technologies: Java, Swing, SQLite, JAXB, Javassist (byte code manipulation), JGit

Embedded development on MRI and NMR systems (spectrometer and ancillary elements)
- Interfacing FPGA and "client" software
- Hardware control, monitoring, networking

Technologies: C, Python, µC/OSII, embedded Linux, Arduino, Raspberry

CRIH Alsace (Strasbourg Hospital): Information System Architecture / Software Engineering	2002 - 2016

	2013 - 2015

Development and implementation of ECG dematerialization
- DICOM ECG Viewer
- Worklist server interfaced with multiple data sources
- Related DICOM tools: query/retrieve to WADO proxy, filtering store proxy, ...

Technologies: Java, Swing, DICOM, Dcm4che, ORM HL7, HAPI

	2007 - 2015

Intranet portal redesign and modernization
- Homogenization of the "technical" and the information websites
- Single entry point to start all applications
- Citrix ICA and Citrix RADE integration
- Mobile version

Technologies: Java, JSP (Tomcat), Citrix

	2008 – 2012

Design and implementation of an authentication server
- Authentication by password or token (single-sign on)
- Password update management and replication to multiple "slave" systems
- Two-factor authentication with a personal code card
- High availability: no service interruption, more than 20,000 authentications per day

Technologies: Java, Hibernate, Jetty, JSON, Web Services (XFire), HAProxy

Development of a "shared workstation" on thin clients   2006 – 2009
- Smartcard authentication with LDAP directory integration
- Session sharing with roaming
- Applications deployed on Citrix server farms
- Adaptation of the whole system to standard PC

Technologies: C, smartcard & PCSC, Linux

Creation of a collaborative portal application   2004 – 2005
- Document management, workflow management, ...
- Development of reusable Zope/CPS modules

Technologies: Web, Python, Zope, Nuxeo CPS (collaborative portal server)

Development of a Mantis to Java/JSP converter   2003
- Transpiler converting displays to JSP and programs to Java classes

Technologies: Java, Applets, JSP, HTML, CSS, JavaScript, SQL (Oracle)

Coélis: Developer   2001

Development of a meta-search engine for patents
Technologies: HTTP, Python, MySQL, PHP

Personal projects and opensource contributions

                                                                               2007

Blocks Language: Lead developer
Design of a visual programming language for the Java platform
- Drag-and-drop of functional blocks
- Usable from javax.script API (JSR 223)

Technologies: Java (Swing, Xstream, JSR 223, ...)
Tools: Maven, Mercurial, Flyspray, IntelliJ IDEA, ...

Lucane Groupware: Maintainer, architect, lead developer   **2002 - 2006**
Nominated for the 2005 "trophées du libre", more than 50.000 downloads
Full development of an open source groupware
- Central platform on which the applications are built
- Peer-to-peer, "object-oriented" network protocol
- Synchronous and real-time applications: instant messaging, file sharing, forum, calendar, task list, personal notes, shared drawing, mail client, RSS reader, voice chat, ...
- Swing and Web user interfaces
- Public relations, project management, documentation, seminars...

Technologies: Java (network, Swing, JSP, i18n, serialization), databases (HSQLdb, Mysql, Postgres, LDAP), web
Tools: Maven, Subversion, CVS, various bug trackers, Eclipse, IntelliJ IDEA...

Other contributions   **2002 - 2019**
- QixBall: arcade game for Android (2018)
- Xemelios: authentication modularization, architecture advices (2006)
- TinyMCE: plugin development, bug fixes (2005)
- Nuxeo CPS: Contributor, quota management and authentication modules (2004-2005)
- Ruby: Sharp Zaurus port (2002)

Education

2001-2002: *Licence professionnelle* "Designer/developper in distributed environments", IUT Illkirch
        Mostly equivalent to a B. Sc in Computer Science.
1999-2001: IUT Informatique, Illkirch
        Equivalent to an Associate's degree in Computer Science.
1996-1999: Lycée André Maurois, Bischwiller
        High school graduation.

Miscellaneous

French: native speaker
English: fluent, 910 points on the TOEIC test in 2002.
Hobbies: Reading, music (cello, guitar), go, sport (cycling).