

# Software engineering manager / Senior developer

## Skills summary

### Vincent FIACK

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41 years old, married, one child

Management: Distributed teams, hybrid remote/on-site, ...  
Dev. Methodologies: Kanban, SCRUM, ...  
Operating Systems: Linux, Windows,  $\mu$ C/OS II  
Programming: Java, C, Python, JavaScript, TypeScript...  
Web technologies: HTML, CSS, React, XML, JSON, ...  
Databases: MySQL, SQLite, Oracle, LDAP, ...  
Tools: Git, Subversion, Maven, Jenkins, ...  
Languages: French (native), English (fluent)

## RS<sup>2</sup>D / Nanalysis: Head of Software Development

2020 - ...

### Leader of a software development team, distributed across France and Canada – 15 people split on 4 project types

- Defining the company's software strategy: choosing projects, priorities and budgets.
- Project management, day-to-day activity tracking, task assignment.
- People management, from hiring process to career evolutions.
- Relations with other teams: Hardware development, Marketing, Scientific (MRI & NMR)

Standardization of development methods between all teams of the company

- Setup a hybrid Scrum/Kanban model with two-week sprints, agile development workflow using feature branches and mandatory code reviews.
- Management of products release lifecycle, including content definition and scope negotiation.
- Quality management : code, tests, and management of development processes (ISO-9001)

*Tools: Github, Jira, Sonarcloud*

Software development

- Analysis, architecture and work breakdown of new features into actionable tasks
- Active participation in all development activities, including code review (40% of my total work time)

*Technologies: Java, Swing, JavaFX, SQLite, Quarkus*

## 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*

## RS<sup>2</sup>D: 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,  $\mu$ C/OSII, embedded Linux, Arduino, Raspberry*

<b>CRIH Alsace (Strasbourg Hospital): Information System Architecture / Software Engineering</b>	<b>2002 - 2016</b>
Development and implementation of ECG dematerialization <i>Technologies: Java, Swing, DICOM, Dcm4che, ORM HL7, HAPI</i>	2013 - 2015
Intranet portal redesign and modernization <i>Technologies: Java, JSP (Tomcat), Citrix</i>	2007 - 2015
Design and implementation of an authentication server <i>Technologies: Java, Hibernate, Jetty, JSON, Web Services (XFire), HAProxy</i>	2008 - 2012
Development of a "shared workstation" on thin clients <i>Technologies: C, smartcard &amp; PCSC, Linux</i>	2006 - 2009
Creation of a collaborative portal application <i>Technologies: Web, Python, Zope, Nuxeo CPS (collaborative portal server)</i>	2004 - 2005
Development of a Mantis to Java/JSP converter <i>Technologies: Java, Applets, JSP, HTML, CSS, JavaScript, SQL (Oracle)</i>	2003
<b>Coélis: Developer</b>	<b>2001</b>

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

<b>Personal projects and opensource contributions</b>	<b>2007</b>
<b>Blocks Language: Lead developer</b> Design of a visual programming language for the Java platform <i>Technologies: Java (Swing, Xstream, JSR 223, ...)</i> <i>Tools: Maven, Mercurial, Flyspray, IntelliJ IDEA, ...</i>	
<b>Lucane Groupware: Maintainer, architect, lead developer</b> <b>Nominated for the 2005 "trophées du libre", more than 50.000 downloads</b> Full development of an open source groupware <ul style="list-style-type: none"> <li>• Central platform on which the applications are built</li> <li>• Peer-to-peer, "object-oriented" network protocol</li> <li>• Synchronous and real-time applications: instant messaging, file sharing, forum, calendar, task list, personal notes, shared drawing, mail client, RSS reader, voice chat, ...</li> <li>• Public relations, project management, documentation, seminars...</li> </ul> <i>Technologies: Java (network, Swing, JSP, i18n, serialization), databases (HSQLdb, Mysql, Postgres, LDAP), web</i> <i>Tools: Maven, Subversion, CVS, various bug trackers, Eclipse, IntelliJ IDEA...</i>	<b>2002 - 2006</b>
<b>Other contributions</b> <ul style="list-style-type: none"> <li>• QixBall: arcade game for Android (2018)</li> <li>• Xemelios: authentication modularization, architecture advices (2006)</li> <li>• TinyMCE: plugin development, bug fixes (2005)</li> <li>• Nuxeo CPS: Contributor, quota management and authentication modules (2004-2005)</li> <li>• Ruby: Sharp Zaurus port (2002)</li> </ul>	<b>2002 - 2019</b>

<b>Education</b>
2001-2002: <i>Licence professionnelle "Designer/developper in distributed environments", IUT Illkirch</i> 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.

<b>Miscellaneous</b>
French: native speaker English: fluent, 910 points on the TOEIC test in 2002. Hobbies: Beekeeping, music (violin), go, sport (cycling – road racing).