

Christopher Deckers

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Date of birth: September 18th 1977 - 40 years old

Nationalities: French and British

Driving license



I am a senior software engineer, technical team leader and architect. I can design systems, applications and tools, understand and improve complex code bases, work in teams, and solve problems.

I have 18+ years of experience in software development and over 12 years working in the financial sector.

Long-time participation in Open Source projects (administrator and contributor).

Technical Competences

Programming languages: Java (excellent), JavaScript, C++, C.

Java: J2SE/JSE, J2EE/JEE, Swing, SWT/JFace, Eclipse RCP, Axis 2, Tomcat, JBoss, Spring, Spring Boot, JSP, Struts, Maven, Ant, JUnit, JNI, JNA.

Web techniques: Node.js, NPM, HTML, ES6, Web Services, SOA, Microservices, SOAP, REST, Ajax, CSS, Sass, Less, Angular 2+, Webpack, Babel, Bootstrap, TypeScript, Polyfills, Express.js, JSON.

Database: SQL, JDBC, Hibernate, JPA, PostgreSQL, SQL Server, MySQL, Oracle, H2, Sybase, Access.

Methodologies: Agile, Test-Driven Development (TDD), Continuous Development, Scrum, Design Patterns.

Source control: Git, CVS, SVN, ClearCase.

Software: Eclipse SDK/WTP, IntelliJ, VMware, Visual Studio, VSCode, Firefox, Chrome, Photoshop.

Operating systems: Windows, UNIX, Linux.

Miscellaneous: Open Source, UML, XML, Jasper, POI, SIP, SNMP, ASN1.

Finance: Derivatives, Structured Products, Funds, Portfolio Valuation, Credit Risk, Market Data.

Education

HUT, Helsinki University of Technology (Helsinki, Finland): 2000 - 2002

Telecommunications and Networks. One year ERASMUS exchange student, then one additional year. Diploma engineer (MSc) of EFREI in 2001.

EFREI, Ecole Française d'Electronique et d'Informatique (Paris, France): 1996 - 2001

Major: Computer Science. One of the leading engineering schools in IT, competitive entrance examination.

French Baccalauréat (1996) - equivalent to GCE 3 A-levels in Mathematics, Physics and Biology.

Languages

English: Fluent. TOEIC score: 895.

French: Native speaker.

Work Experience - at a glance

2008 - Now	10 years	Sr. Software Engineer, Tech lead	FinLab Solutions	Geneva, CH
2006 - 2008	1.5 years	Sr. Software Engineer, Tech lead (freelance)	DePfa Bank	Frankfurt, DE
2004 - 2006	2 years	Sr. Software Engineer (consultant)	Thomson Reuters	Geneva, CH
2004 - 2004	3 months	Research Project Manager (consultant)	France Telecom R&D	Caen, FR
2000 - 2004	3.5 years	Sr. Software Engineer, Team Leader	Nokia Networks	Helsinki, FI
2000 - 2000	3 months	Software Developer (internship)	Alris Interactive	Paris, FR
1998 - 2000	2 years	Software Developer (junior enterprise)	SepEfrei	Paris, FR

Work Experience

04.2008 - Present (10 years)

FinLab Solutions (Geneva, Switzerland)

Senior Software Engineer, Tech Lead, Architect

PackHedge, financial solution to analyse and manage funds (Mutual/Traditional, Hedge, Private Equity) and other instruments (UCITS, ETFs, Equities, Real Estate, etc.). Features asset allocation, portfolio construction and management, shadow accounting, documents and workflow, user and feeder data aggregation (e.g. Bloomberg), and computes various statistics and analyses.

- Restructured the project, refactored most of persistence, business and user interface layers.
- Set up a Scrum-like agile process for the team (6 people) and a continuous build environment with regression and integration tests. Creation of various assisting tools.
- Expert on concurrency and performance: now much faster, lower memory footprint, no freeze.
- Optimised database accesses, speed of SQL requests, database creations and upgrades.
- Owner of 2/3 of the code (3 million lines); assist support, test and client report development teams.
- Involved in the design and development of most features, e.g.: framework for advanced quantitative and qualitative research and analysis, risk analysis, stress testing, scenario analysis, exposure analysis, portfolio optimisation, liquidity analysis.
- Portfolio valuation, profit and loss (P&L) and performance calculations (MWR, TWR, IRR).
- Monitored new trends and technologies, carried some experiments, shared results and findings with the team. For example, dynamic reports in the form of web applications: I added a web service query API (JSON format) calling PackHedge Server data engine, and I created an Angular 2 application with various sections, texts, charts and navigation, using this API.

Java 8, Eclipse, JavaScript, SVN, JNI, Postgres, SQL Server, Photoshop, Web Services, Restlet, Cloud, TypeScript, ES6, NPM, Angular 2, Angular-cli, Node.JS, JSON, Git, Polyfills.

✓ Key developer, I helped boost the team resulting in feature-rich releases with reliable code.

10.2006 - 04.2008 (1.5 years)

DePfa Bank (Frankfurt, Germany)

Senior Software Engineer, Tech Lead (freelance), 02.2007 - 04.2008

Platform to schedule, aggregate and share reports produced by Misys Summit and other systems.

- I joined to improve user experience, perform a technical analysis and re-focus the project.
- Proposed and implemented a new application.

Java, Eclipse RCP, Axis, JPA, Hibernate, MySQL, Tomcat, SWT/JFace, Photoshop, SVN, Summit.

Senior Software Engineer, Tech Lead (freelance), 10.2006 - 07.2007

Foundation IRB Basel 2 engine, to calculate capital requirements (credit risk regulations). Sub-project of the internal credit limit system, itself an extension to Misys Summit.

- Main architect and designer, I had to define a strategy and tools to ensure compliance.
- Worked with business analysts to refine the specifications and interpret the Basel 2 CRD.
- Control coverage of the various instruments of the bank as per the Basel 2 calculations.

Java, XML, Eclipse SDK, IntelliJ IDEA, Swing, Sybase, Photoshop, CVS, SVN, Summit 3.7.

✓ I improved my knowledge of cash instruments and derivatives (bonds, equities, repurchase agreements, CDS, futures, swaptions, money market, FX, etc.) and credit risk management (hedging, collaterals and guarantees, netting agreements, and securitisation).

<p>09.2004 - 10.2006 (2 years)</p> <p>Senior Software Engineer (consultant, Alpecs SA)</p> <p>Reuters Wealth Manager, Web application presenting financial content in real time (quotes, portfolios, news, charting, technical analysis). Java Applets that communicate with data servers and JS container.</p> <ul style="list-style-type: none"> ▪ Technical expert, Java specialist. Re-structured the project, migrated to SVN, created several tools. ▪ Contribution of a library to access the different data services (quotes and news headlines streaming servers, news stories, instruments information, charting data). ▪ Creation of a graphical toolkit; new components: portfolios with formulas, Heat Map, quote and news tickers, advanced technical analysis, native integration (using JNI). ▪ Solved internationalisation challenges (e.g.: automatic traditional to simplified Chinese conversion). <p>Java, SOA, Microservices, Eclipse, AWT, Java 2D, HTTPS, TCP, I18N, Photoshop, CVS, SVN, JNI.</p> <p>✓ The team liked my libraries/prototypes so I was promoted to study and implement the next releases.</p>	<p>Thomson Reuters (Geneva, Switzerland)</p>
<p>06.2004 - 09.2004 (3 months)</p> <p>Research Project Manager (consultant, Alten)</p> <p>Study of digital wallets, meant to offer payment instruments for mobile transactions.</p> <ul style="list-style-type: none"> ▪ Study within France Telecom R&D, getting business orientations and reporting to Orange R&I. ▪ Researched and analysed the existing solutions (internal and external). ▪ Issue recommendations (according to feasibility, business model, market opportunities, strategy). ▪ Challenge: find solutions that did not fall under the banking regulations. 	<p>France Telecom R&D (Caen, France)</p>
<p>12.2000 - 06.2004 (3.5 years)</p> <p>Senior Software Engineer, Team Leader, 02.2003 - 06.2004</p> <p>NetAct 4 BroadBand, configuration of network elements, developed by a multicultural team (25 people).</p> <ul style="list-style-type: none"> ▪ Member of a team of 4 specialists moving the project from United-States to Finland. ▪ Transferred competence, analysed the architecture. ▪ Technical expert during the recruiting interviews. ▪ Architecture team member, team leader of two out of six teams, floating developer into the other teams. ▪ Key communication role with the network equipment teams and documentation team. <p>Java, Swing, WebStart, Oracle, WebLogic, CORBA, TCP, SNMP, MIB, I18N, Photoshop, SourceSafe.</p> <p>✓ Very fast and smooth ramp up, we delivered expected releases according to schedule.</p> <p>Senior Software Engineer, Tech Lead, 12.2000 - 06.2004</p> <p>D500 Web Craft Terminal Client, an application to manage DSL Access Multiplexers (DSLAMs).</p> <ul style="list-style-type: none"> ▪ Technical expert, in charge of the architecture, development environment, integration and deployment. ▪ I was taking care of the data model, client/server protocols, user interface, and critical areas. ▪ Main contact with the hardware teams, documentation, testing and acceptance teams. ▪ Transferred competences to other teams for forks of the product (United-States, India). <p>Java, Swing, WebStart, JBuilder 4, TCP, SNMP, MIB, Photoshop, SourceSafe, VxWorks.</p> <p>✓ I developed a graphical SNMP/MIB simulator to solve slow hardware upgrades: completion of the project far ahead of schedule.</p>	<p>Nokia Networks (Helsinki, Finland)</p>
<p>05.2000 - 07.2000 (3 months) - Software Developer (internship)</p> <p>I created an intranet (HTML, JavaScript, ASP/IIS, Access) to manage clients, employees and projects.</p> <p>✓ Success of the project: the company envisioned selling the solution to their clients.</p>	<p>Alris Interactive (Paris, France)</p>
<p>1998 - 2000 (2 years) - Software Developer (junior enterprise)</p> <p>Various projects. E.g.: application in C to manage a database for the Paris Hospitals.</p>	<p>SepEfrei (Paris, France)</p>

Open Source & Personal Projects

I dedicate a part of my free time to Open Source projects (mine and others'), and also to experiment and learn new frameworks, tools and technologies.

Notable Personal Open Source projects

<http://www.nextencia.net/projects>

The DJ Project

<http://djproject.sourceforge.net>

Integrate in Swing applications a native web browser, Flash Player, multimedia player, HTML editor.

- Advanced Java; led me into discussions with developers from Oracle, Eclipse SWT and Apple JRE. Java, AWT, Swing, SWT, Eclipse, Mozilla XPCOM, Windows Shell Extension, IzPack installer, JNI, Git.
- ✓ This project is used by many applications, for various purposes (130K+ downloads).

RRDiagram

<https://github.com/Chrriis/RRDiagram> - <https://www.npmjs.com/package/rrdiagram-js>

Generate railroad diagrams in SVG (e.g. to represent SQL grammars) from Java, or on the fly through JavaScript embedded in web pages.

Java, JavaScript, ES6, Eclipse, VSCode, Babel, WebPack, Polyfills, SVG, BNF, Git.

- ✓ Some famous companies use this project for their documentation.

SWTSwing

<http://swtswing.sourceforge.net>

Implementation of SWT using Swing. It allows running SWT or RCP applications (including Eclipse) where native SWT is not available (e.g. OS2, eComStation). Allows perfect SWT and Swing mix.

- Generated interest from the Java community, bringing closer the Eclipse Foundation (Eclipse Platform, SWT) and Oracle (Swing).
- Required advanced Java: AWT event pump control, thread and message synchronisation, event conversion, advanced drag and drop, deferred printing, DPI handling, advanced 2D Graphics, etc.

Advanced Java, AWT, Swing, SWT, Eclipse, CVS.

- ✓ SWTSwing was presented in some articles (Eclipse Magazin) and conferences (EclipseCon 2007).

DZone Voting

<https://addons.mozilla.org/en-US/firefox/addon/dzone-voting/>

DZone is a social-bookmarking website for developers (articles, blogs, podcasts, etc.). DZone Voting is a Mozilla Firefox add-on that injects a toolbar to not have to return to the website to vote or submit new links.

JavaScript, Mozilla Firefox, XUL, RDF, AJAX, XPI, HTML DOM.

- ✓ DZone was promoting it to its users (several thousands of developers).

Notable Contributions

Projects: PostgreSQL (JDBC Driver), H2 Database, Oracle JDK, Mac JRE, Eclipse/SWT, JOOQ.

Interactions with various entities: Oracle, Mozilla, Apple, Eclipse, IBM, TUI, Deutsche Bank, Retraites Populaires (Lausanne), T-Online, Cisco, Verizon, Texas Instruments, Alcatel-Lucent, Servoy, Pearson, Emirates, SAS Institute, consulting companies (e.g. Wipro), universities (e.g. University of California).