



CRISTIAN CARTOG

SENIOR SOFTWARE
ENGINEER / TECHNICAL
LEAD

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Sibiu, Romania

SKILLS

- Java, Javascript, Typescript
- Back-End: Spring Framework (Core, Boot, Data, Security, Web), EJB 3.1, JaxRs, JPA
- Front-End: Angular 5, Angular 1, JQuery, CSS, HTML,
- DB: Mongo, Oracle, Exasol, MySql, Elasticsearch
- Jira, Confluence, Jenkins
- Git, SVN
- Nomad, Docker
- Maven, Gradle, Npm, Ant

CERTIFICATIONS

- Oracle Certified Expert, Java EE 6 Persistence API Developer (2013)
- Sun Certified Developer for Java Web Services 5 (2010)
- Sun Certified Web Component Developer for J2EE 5 (2009)
- Sun Certified Java Programmer for Java 6 (2009)
- Cisco Certified Network Associate (2009)

EDUCATION

- BACHELOR'S DEGREE IN AUTOMATION AND COMPUTER SCIENCE
- "POLITEHNICA" UNIVERSITY OF TIMISOARA
- 2009

WEBSITES & SOCIAL LINKS

- linkedin:
https://www.linkedin.com/in/cristian-cartog-4ba98a66/
- github:
https://github.com/cristiancartog

ABOUT ME

I am a consultant / contractor / freelancer with **14 years** of experience, only interested in remote work.

I help companies around the world implement maintainable, scalable and efficient distributed systems.

Let's connect and discuss how I can help your business!

WORK EXPERIENCE

SENIOR SOFTWARE DEVELOPER / TECHNICAL LEAD

WINDELN.DE | SIBIU
MAY 2016 - PRESENT

PIM: The company uses it's own product information management system which has a few issues: badly implemented, unscalable, untested, generated lots of data issues and was hard to maintain. A new PIM implementation was needed.

- increased** the product processing speed **by 120%** by eliminating unnecessary conversions and migrating it to the newer versions of mongo and Elasticsearch.
- increased** product validation throughput **by 600%** by rewriting the validation logic, moving it in a separate service and deploying it on multiple machines
- reduced** the indexing process **from 4h to 10 min** by creating a new reindexing service
- reduced** the technical debt **by 95%** (according to SonarQube) and **lead** a team of **5 developers**.

Skills used: Java, Spring Boot, activemq, rabbitmq, javascript, typescript, groovy, angular, Junit, mockito, MongoDB, Elasticsearch, maven, jenkins, nomad, git.

KIM: The company has it's own customer care application used by on/off-site employees to quickly solve customer issues regarding orders, products, vouchers, coupons, personal information, loyalty points, transactions and invoices, all during phone conversations.

- reduced** agents' call time **by 30%** by implementing a feature that enables order issues to be solved preemptively
- improved** agents' productivity **by 10%** by providing easy access to detailed customer information in the UI
- reduced** technical debt **by 90%** (as reported by SonarQube) and **mentored 2 developers**

Skills used: Java 8, Spring Boot 2.1, activemq, rabbitmq, Javascript, Typescript, Groovy, Angular 1.5, Junit, mockito, MongoDB, maven, jenkins, nomad, GIT.

SENIOR SOFTWARE DEVELOPER / TECHNICAL LEAD

ROPARDO | SIBIU
AUG 2014 - APR 2016

JRA (Job Role Advisor): The company needed an application that would allow managers to set possible career paths and job roles to employees based on their skill sets.

- reduced** decision maker's time **by 50%** by implementing batch processes that would automatically do employee-to-job role assignments
- implemented 20%** of the UI and core services and utilities
- overall the application would **save 80%** of the managers' time spent on employee skill evaluation. The company has around 350.000 employees.

Skills used: Java 7, EJB 3.1, JaxRs, Javascript, Dojo 8, WebSphere, mybatis, DB2, ant, IBM "Rational" tool suite

Flex Finance: The client had an old, complex report generation suite heavily used in the banking sector. It was built on old, deprecated and proprietary technology, so the client wanted to migrate it to a newer technology stack.

- lead** a team of **4 developers**, maintained the old system, and initiated the migration.
- saved 10%** of the user's time by implementing the final feature of the old system: an in-browser excel editing for report configuration
- created 30%** of the core services, defined the multi-module project structure and built the portal application

Skills used: Java 7, JSF 2.1 with PrimeFaces 5, Wildfly 8, JPA, Hibernate, Oracle DB, proprietary technology (DI framework, ORM framework, UI component suite) ant, maven, SVN

SENIOR SOFTWARE DEVELOPER

MINDMATICS LABS | SIBIU
MAY 2012 - AUG 2014

MCC (Mopay Configuration Center): The client wanted all company office processes (user management, contract definitions, banking data management, package filtering, etc) to be done through one unified interface: a web application that would simulate a desktop environment (multiple windows, taskbar, start menu, control panel and notifications).

- reduced** back-end latency **by 50%** through improved ORM mappings and better JPA queries.
- implemented 50%** of the features and **70%** of the core services and utilities
- reduced** the application load time **by 80%** through a build configuration that generated a compressed, minified and obfuscated UI artifact.

Skills used: Java 6, Spring 3 (core, mvc, security), JPA (with Hibernate), SQL, oracle DB, tomcat 7, ExtJs 4.2, HTML, CSS3, junit, gradle, SVN, jenkins.

Mopay Cockpit: This cash flow and KPI monitoring application is the main interface for the company's clients. The company needed it to improve client retention and build trust so the user interface had to be sharp, polished and very responsive.

- developed 50%** of the charts and graphs the client would see and **30%** of the business logic
- reduced by 50%** the response time of UI product classification tree component through better data modeling and improved traversal method
- reduced** technical debt **by 45%** and improved test code coverage **by 40%**

Skills used: Java 6, Spring 3, tomcat 7, SQL, Oracle DB, Exasol DB, JDBC, JavaScript, ExtJs 4.2, HTML, CSS3, junit, gradle, SVN, jenkins

SOFTWARE DEVELOPER

POLISANO | SIBIU
AUG 2011 - APR 2012

Reports: The client had a very old, unstable, insecure and unappealing reporting application consisting of 170 pages. He wanted a new one that would also provide basic features such as security, content restrictions based on user roles and permissions, better response time and most of all, stability.

- implemented 100%** of the required functionality and provided clear guidelines for extension
- 30% faster** report generation through better queries, caches, pagination and sorting mechanisms; **70% codebase reduction** compared to the older application
- saved 6%** of users' time, daily, by not having the constant downtime
- I introduced the concept of build tools (ant), feature tracking system (Jira), source code versioning (SVN), refactoring and good programming principles, patterns and practices in a clueless IT department.

Skills used: Java 6, JSF 2.1 (with Primefaces 5), HTML, CSS, Wildfly, MySQL, ant, SVN

Vacations & Travel Agents: These 2 internal applications, a vacation management system and a time/route/client/offer tracking system needed only maintenance, but this quickly became too time-consuming because of the poor quality of the codebase.

- reduced** the codebase **by 55%** and improved application load time by 15% through massive refactoring and usage of OOP concepts and best practices
- saved 5%** of my time and **15%** of the users' time by eliminating some of the recurring issues

Skills used: Java 5, servlets, JSP, tomcat 6, MySQL, HTML, CSS2, javascript, jQuery, ant, SVN

SOFTWARE DEVELOPER

OCE | TIMISOARA
AUG 2008 - JUL 2011

JPUI: The client wanted a full rewrite of a wide-format printer panel UI because of licensing issues in the UI library on the current version. The project was estimated for 9 months for 3 developers (and had a pessimistic aura as the initial implementation lasted 2.5 years with 5 developers).

- saved 22%** of the budget by delivering the whole application 2 months earlier
- improved** response time **by 50%**, and reduced codebase **by 40%** through refactoring and better use of Swing
- reduced** technical debt **to 0** (according to FindBugs and PMD)
- supervised and **mentored 2 colleagues**

Skills used: Java 5, Swing, Junit, mockito, XML

Chinook: The client was developing a rich UI for high speed, high volume document printers and I was part of a team of 10 developers building the new UI.

- saved 5%** of the product owner's time by implementing a build-time translation processor
- saved 20%** of an operators' workload by implementing a UI wizard that would guide them in fixing runtime printer issues
- developed 60%** of the components in the OTTK library, a Swing LoogAndFeel based on Metal, which would become the standard component library for "chinook" and subsequent printer UIs in the company.

Skills used: Java 5, Swing, XML, DTD, XSLT, XSD, Xpath, Jaxb, Junit

JUNIOR SOFTWARE DEVELOPER

CONTINENTAL AG | TIMISOARA
DEC 2006 - JUL 2008

OPS & RVC: The client needed help fixing issues on the Optical Parking System and Rear View Camera control modules for the Radio Navigation System that was to be installed in Volkswagen, Seat and Skoda cars, starting 2009.

- improved** RVC usability **by 10%** by fixing crucial issues in RVC that were constantly causing back screens
- improved** OPS usability **by 50%** by building the picture-in-picture functionality
- improved** test coverage **by 60%**

Skills used: Java 5, OSGI, jMock

TAE (Test Automation Environment): Test Automation Environment is a test runner/debugger capable of interpreting DSL instructions to command a car engine HIL device. The client wanted to assist engineers in writing the tests.

- boosted** test writers' productivity **by 50%** through the development of an Eclipse plugin with editor support for syntax highlighting, code suggestions and completion, project management, outline view and debugger integration with TAE
- further **saved 30%** of the test writers' time by implementing a UI and data processing library for a test generator tool

Skills used: Java 5, Eclipse RCP, python 2.7, wxPython, SVN

PERSONAL PROJECTS

AUG 2014 - AUG 2016

Expenses: I built an android app to track personal expenses and show insightful charts and tables based on cash outflow.

Skills used: Android SDK, Gradle, Git

VOLUNTEER WORK

TIMISOARA
JUN 2006 - JUL 2006

MAP Newsletter: I joined the local Microsoft Academic Program and as part of a team of 5 developers created a newsletter web application. This **saved 80%** of the administrators' time by enabling them to quickly compose and send newsletters based on predefined templates.

Skill used: C#, ASP.NET, Visual SourceSafe, MS SQL Server