

Natacha Bagnard

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Lead software developer

Dynamic and creative with over 10 years experience. Interested in designing and building cutting edge applications used by thousands of end-users every day. Willing and capable to take part on all stages of a project including requirements definition, design, architecture, development, testing. Accustomed to perform quality work either as part of a team or individually in deadline-driven environments

SKILLS

Leadership

- Leading medium to large teams
- Defining project specifications
- Driving projects to completion
- Code and design reviews
- Mentoring junior team members

Databases

- **APIs:** JDBC, ODBC, ADO.Net
- **Relational:** MySQL, PostgreSQL, Oracle, Salesforce, Redshift, Teradata, Google BigQuery, Snowflake
- **NoSQL:** DynamoDB, Cassandra

General

- **Languages:** Java, .Net, C++, SQL, Node.js, Shell, XML
- **Methodologies:** Scrum, Kanban, Waterfall
- **Tools:** Eclipse, Visual Studio, Maven, Ant, Perforce, Git, JUnit, Hudson/Jenkins, Bamboo, Archiva, Jira, Confluence, Swarm, Github
- **Web Services:** SOAP, WSDL, Apache Axis, REST
- **Parsers:** Antlr, Flex, Yacc
- **OS:** Windows, Linux

Project management

- Project Scheduling
- Risk management
- Engaging the team in effective communication and collaboration

Performance testing

- **Tools:** Jmeter, Nmon/perfmon, Splunk, Visual VM, Yourkit
- **Benchmark :** TPC-H

JEE web applications

- **JEE:** Tomcat, JOnAS, WebLogic, JSP, Servlets
- **Web:** XSL/T, X/HTML
- **Frameworks:** Spring, Hibernate, Struts, Log4j, Jaxb

EXPERIENCE

Simba Technologies Inc., Vancouver - Canada — *Lead software developer*

June 2014 - Present

Data connectivity specialist. Team lead for our Cloud and wire-protocol based drivers (Google BigQuery, Redshift, Salesforce, Snowflake). Currently leading a team of 8 people working on 4 different drivers. Former team member of the No-Sql team (Cassandra, DynamoDb).

Achievements

- Lead a team that delivered a fully functional Cassandra JDBC driver under 3 months.
- Developed a specialized lightweight SQL parser for Redshift to address deficiencies using regular expressions for detecting parameters and escape sequences..
- Worked on the first framework allowing the No-SQL datasource DynamoDB data to be queried through a SQL engine, allowing it to be used with standard SQL tools.
- Developed several drivers for relational or non-relational databases in Java, .Net and C++, either based on network protocols or APIs (Rest or Soap).
- Started as a Computer Scientist, was promoted to Senior Computer Scientist after 9 months and then Lead Computer Scientist in less than 2 years.

Bull S.A.S, Grenoble - France — *Application performance engineer*

April 2013 - May 2014

Performance test engineer specialized in web applications testing.

Achievements

- Lead performance auditing of the Republic of Senegal Customs website.
- Worked hand-in-hand with engineers specialized in systems to find application bottlenecks (CPU, disks, memory, network...).
- Helped clients improve their web application to provide an enjoyable experience to their users.

Bull S.A.S, Grenoble - France — *Software developer*

October 2012 - April 2013

Worked on a complex platform for Pôle Emploi and its partners to collaborate and exchange information.

Achievements

- Added a new capability to allow calling partners' services directly from the platform.
- Optimized front-end fluidity by redesigning data access management in the back-end going from a few minutes response time to an order of seconds.

Simba Technologies Inc., Vancouver - Canada — *Software developer*

January 2012 - October 2012

JDBC specialist on SimbaEngine SDK data access solution..

Achievements

- In charge of the SimbaEngine SDK upgrade to support JDBC 3.0 and 4.0 specifications instead of JDBC 3.0 only. It included everything from conception to delivery with implementation and tests plan.
- Mentored a co-op and helped him understand and write tests according to the tests plan for the JDBC 4.0 SDK.
- Implemented a custom JDBC driver with a SOQL parser for accessing Salesforce.com data using SimbaEngine SDK and Salesforce SOAP API.

Bull S.A.S, Grenoble - France — *Software developer*

October 2007 - October 2011

Worked on large java web applications allowing French online voter registration, name change or change of address.

Achievements

- Large contribution in gathering customer requirements and writing functional specifications.
- In charge of a back-end application from conception to support.
- Extensive experience with large scale JEE web applications, development best practices, code conventions, patterns and framework usage.

EDUCATION

Master's degree - Computer Science Engineering

Université Joseph Fourier, Grenoble - France

2007