

EKWA DUALA-EKOKO

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OBJECTIVE Seeking a permanent position as a Software Engineer or a Team Lead.

SUMMARY OF QUALIFICATIONS

- 5 years software development experience with expert knowledge of enterprise design patterns, API design, and scaling software applications.
- 2 years experience as Team Lead and Scrum Master in an agile development team of 8 engineers.
- Full stack experience with JEE and PHP.

TECHNICAL SKILLS

Languages: Java, JEE (Servlets, JSP, EJBs, JPA, SOAP/REST Web Services), PHP, Android SDK, C, C++.

Web: JavaScript, JQuery, AJAX, HTML, XML, CSS, Dreamweaver.

Databases: Oracle, Postgres, MySQL, MongoDB, MS Access, SQL.

Frameworks: Hibernate, Spring, JDBC, Swing, Struts, JUnit, TestNG, Selenium, JFreeChart, JasperReports, AspectJ, Lithium, CakePHP.

OS: Windows, MacOS, Linux/Unix.

Servers: Apache web server, Tomcat, JBoss, Nginx.

Tools: Eclipse, NetBeans, Ant, Maven, SVN, CVS, Git, JIRA, Bugzilla, Hudson, Scrumworks.

Others: Object-Oriented Analysis/Design, UML, Design Patterns, AOP, Agile Software Development, API Design.

INDUSTRIAL EXPERIENCE

Software Engineer & Team Lead Mitel Networks (*Acquired Cambrai Solutions*), Ottawa, ON, Canada
May 2012–Present

- Successfully designed and implemented web services for integration with Tier 1 Service Providers management systems including Sprint Telecom. The web services form the core of Mitel's Hosted VoIP platform.
- Recommended, architected, and implemented automated testing system using TestNG and Selenium Web Driver. Automated Testing System has decreased software verification time by 50% and is under review for implementation in all Mitel web applications.
- Implemented multiple features on Mitel's hosted platform portal using JSP, Servlets, Javascript, AJAX, JQuery, HTML, and CSS in the front-end, and EJBs, JPA, Hibernate, and Postgres in the back-end.
- Managed the agile development process in a team of 8 engineers as the Scrum Master, consistently meeting release deadlines.
- **Technologies used:** Java, JEE (Servlets, JSP, EJBs, JPA), Spring, JDBC, Hibernate, Postgres, Javascript, JQuery, AJAX, HTML, CSS, SVN, Maven, XML, Json, Eclipse, TestNG, Selenium, JBoss, Linux(CentOS), Scrumworks.

**Software Engineer & Scrum
Master**

Cambrai Solutions (*Acquired by Mitel
Networks*), Ottawa, ON, Canada
August 2011–April 2012

- Recommended, designed, and implemented APIs to remove reliance on a third party middleware. The new APIs, for communicating with multiple versions of Mitel's PBX, cut time from new feature request to implementation by 70% and vastly improved support ticket resolution time.
 - Implemented multiple features on Cambrai's provisioning portal using JSP, Servlets, Javascript, AJAX, HTML, and CSS in the front-end, and EJBs, JPA, Hibernate, and Postgres in the back-end.
 - Acted as Scrum Master in team of 4 engineers. Was requested by R&D Manager to takeover Scrum Master role only three months after starting with the team.
 - Worked directly with Product Manager on a Google Apps provisioning prototype used for demonstration with potential customers.
 - **Technologies used:** Java, JEE (Servlets, JSP, EJBs, JPA), Struts, JDBC, Hibernate, Postgres, Javascript, JQuery, AJAX, HTML, CSS, SVN, Maven, XML, Json, Eclipse, Junit, JBoss, Linux(CentOS).
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Principal Software Engineer(P/T)

MoodPik, Boston, MA, USA
March 2012–Present

- Architected and implemented the REST APIs for the MoodPik social networking platform.
 - Designed and deployed the MoodPik infrastructure composed of a load balancer, multiple Linux Nginx web servers, and a cluster of MondoDB databases on the Rackspace cloud.
 - Developed and implemented the security policy of the MoodPik web and mobile platforms, and the MoodPik infrastructure.
 - Implemented multiple features on the web platform using PHP5, JQuery, JavaScript, AJAX, HML, and CSS in the front-end, and the Lithium Framework and MongoDB in the back-end.
 - **Technologies used:** PHP, Lithium Framework, MongoDB, HTML, CSS, JavaScript, AJAX, JQuery, Json, XML, Git, Eclipse, Nginx, Linux(Fedora).
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Software Engineer (Mobile)

Cantoura Inc., Ottawa, ON, Canada
August 2010–July 2011

- Designed and implemented an augmented reality and location based application for the Android platform.
- Architected and implemented the core augmented reality framework using the Android SDK.
- Integrated data from multiple REST-based services such as Wikipedia, OpenStreetMap and Yellow Pages.

- **Technologies used:** Java, Android Framework, REST Web Services, SVN, Json, XML, Eclipse.

**Software Developer
Lottery Division**

Canadian Bank Note, Ottawa, ON
February 2007–August 2007

- Implemented multiple features for a distributed lottery system based on specifications using Java, Swing, JDBC, and MySQL database.
- Implemented and maintained JUnit test suites, managed the continuous integration process using Hudson, and resolved integration errors.
- **Technologies used:** Java, Swing, JasperReports, JFreeChart, SQL, JDBC, MySQL, Ant, Bugzilla, JUnit, Hudson, CVS, Eclipse.

Programmer Analyst (Intern)

Hydro One, Peterborough, ON,
September 2002–August 2003

- Implemented multiple front-end and back-end features using Java, J2EE (Servlets, JSP), JDBC, SQL, HTML, CSS and Javascript.
- Installed and configured Apache Tomcat as the production web server.
- **Technologies used:** Java, J2EE (JSP, Servlets), SQL, JDBC, Oracle, JUnit, Apache Tomcat, CVS, Dreamweaver, HTML, CSS, Javascript.

EDUCATION

- Ph.D., Computer Science (GPA: 4/4)** 2012
McGill University, Montréal, Québec, Canada
- M.Sc., Computer Science (GPA: 3.85/4)** 2006
McGill University, Montréal, Québec, Canada
- B.Sc. Math and B.Sc. Computer Science (GPA: 88%)** 2004
Trent University, Peterborough, Ontario, Canada

SELECTED
REFEREED
PUBLICATIONS

- **Ekwa Duala-Ekoko** and Martin Robillard. Asking and Answering Questions about Unfamiliar APIs: An Exploratory Study. *ICSE 2012*.
- **Ekwa Duala-Ekoko** and Martin Robillard. Tracking Code Clones in Evolving Software. *ICSE 2007*. **ACM SIGSOFT Distinguished Paper Award.**

SELECTED
AWARDS

- People's Choice Award, Best in Economic Development, and Best Overall in the City of Ottawa software contest [www.apps4ottawa.ca] – \$9,000 2011
- NSERC Alexander G. Bell Canada Graduate Scholarship – \$105,000 2008
- Dean's Excellence Award, McGill University – \$20,000 2007
- ACM SIGSOFT Distinguished Paper Award, *International Conference on Software Engineering* (top 1% of submissions) 2007