

EKWA DUALA-EKOKO

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TECHNICAL SKILLS

Languages: Java, C, C++, Visual Basic, SQL, Unix Scripting

Web Tools: PHP, JSP, JavaScript, JQuery, AJAX, HTML, CSS, Dreamweaver

Databases: Oracle, MySQL, MS Access

Frameworks: Hibernate, Android, JUnit, HtmlUnit, Swing, JFreeChart, JasperReports, AspectJ

Operating Systems: Windows, MacOS, Unix, Linux

Web Servers: Sun Enterprise 250, Apache web server, Jakarta-Tomcat

IDEs: Eclipse, NetBeans

Others: Object-Oriented Analysis/Design, UML, Design Patterns

EDUCATION

Ph.D., Computer Science Expected, January 2012
McGill University, Montréal, Québec, Canada

M.Sc., Computer Science October 2006
McGill University, Montréal, Québec, Canada

B.Sc. Mathematics and B.Sc. Computer Science May 2004
Trent University, Peterborough, Ontario, Canada

INDUSTRIAL EXPERIENCE

Software Engineer **Cantoura Inc.**
Ottawa, ON, Canada
September 2010–Present

Project lead in the design, implementation, and maintenance of an augmented reality and location based application for the Android platform. Other accomplishments include architectural design, guiding the technical execution, and the implementation of several core features.

Technology used: Java, Android Framework, RESTful Services, Google Web Toolkit, SVN, XML.

Software Developer **Canadian Bank Note Ltd.**
Lottery Division **Ottawa, ON, Canada**
February 2007–August 2007

Worked in a team of five to implement multiple features for a distributed lottery game system based on specifications; maintained JUnit test suites, oversaw the continuous integration process, and resolved integration errors.

Technology used: Java, Swing, JasperReports, JFreeChart, SQL, MySQL, Ant, JUnit, CruiseControl, CVS.

Programmer Analyst

**Hydro One
Peterborough, ON, Canada
September 2002–March 2003**

Led a team of four in the design, implementation, and deployment of a multi-tier web-based personnel management application. Other accomplishments include the implementation of the application logic with an Oracle 8i back-end, and the design and implementation of integration test cases.

Technology used: Java, Java Server Pages, SQL, Oracle, JUnit, Apache Tomcat, CVS.

*Systems Administrator
Department of Computer Science*

**Trent University
Peterborough, ON, Canada
September 2001–August 2002**

Maintained Sun Enterprise 250 unix machines that host Oracle 8i database servers, mail servers, and web servers. Performed software installation, system configuration and upgrades, backups, managed user accounts, and delivered Unix tutorials.

Technology used: Unix scripting, Oracle, SQL.

RESEARCH
EXPERIENCE

*Research Assistant
School of Computer Science*

**McGill University
Montréal, QC, Canada
2007–2010**

Initiated and worked on two research projects that investigated the challenges experienced by software developers when creating or maintaining software systems. I completed both projects within the allotted time, producing two software development tools (Eclipse Plugins) based on static program analysis techniques. I produced three research publications; one of my publications won an *ACM SIGSOFT Distinguished Paper Award* at ICSE 2007.

TEACHING
EXPERIENCE

*Course Lecturer
School of Computer Science*

**McGill University
Montréal, QC, Canada
Winter 2009**

Prepared course materials, assignments, and exams, and delivered five hours of lectures each week for an introductory course in computer programming using Java (CS 202 – Introduction to Computing) with 70 students.

*Teaching Assistant
School of Computer Science*

**McGill University
Montréal, QC, Canada**

Provided one-on-one and group tutoring to students, prepared solutions for assignments, and graded the assignments and exams.

- CS 303 – Software Development Fall 2007, Winter 2008
- CS 667 – Software Fault Tolerance Fall 2005

SELECTED
AWARDS AND
SCHOLARSHIPS

- People’s Choice Award, Best in Economic Development, and Best Overall in the City of Ottawa software contest [www.apps4ottawa.ca] – \$9,000 2011
 - McGill University GREAT Award – \$1,500 2010
 - NSERC Alexander G. Bell Canada Graduate Scholarship – \$105,000 2008
 - FQRNT Doctoral Scholarship – \$20,000 (declined) 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
 - Dean’s Honours List—Thesis Distinction Award, McGill University 2006
 - Deferential Fee Waiver, McGill University – \$12,000 2005
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SELECTED
REFEREED
PUBLICATIONS

Journal Publications

1. **Ekwa Duala-Ekoko** and Martin P. Robillard. Clone Region Descriptors: Representing and Tracking Duplication in Source Code. *ACM Transactions on Software Engineering and Methodology (TOSEM)*, 20(1): Article 3 (31 pages), June 2010.
2. Jörg Kienzle, **Ekwa Duala-Ekoko**, and Samuel Gélineau. AspectOptima: A Case Study on Aspect Dependencies and Interactions. *Transactions on Aspect-Oriented Software Development(TAOSD): Special Issue on Aspects, Dependencies, and Interactions*, Springer-Verlag LNCS 5490, pages 187–234, 2009.

Conference Publications

3. **Ekwa Duala-Ekoko** and Martin P. Robillard. Using Structure-Based Recommendations to Facilitate Discoverability in APIs. *In Proceedings of the 25th European Conference on Object-Oriented Programming (ECOOP)*, 2011. [Lancaster, UK] (26% acceptance rate)
4. **Ekwa Duala-Ekoko** and Martin P. Robillard. Tracking Code Clones in Evolving Software. *In Proceedings of the 29th ACM/IEEE International Conference on Software Engineering (ICSE)*, pages 158–167, 2007. [Minneapolis, USA] (15% acceptance rate) **ACM SIGSOFT Distinguished Paper Award.**

SERVICE

Peer reviewing

ACM Symposium on the Foundations of Software Engineering 2010
Elsevier Science of Computer Programming Journal 2010
ACM/IEEE International Conference on Software Engineering 2009, 2011
IEEE International Conference on Program Comprehension 2008, 2010
ACM International Conference on Aspect-Oriented Software Development 2008

REFERENCES

Available upon request.