

Julius Davies, Senior Software Engineer

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Home: 604-856-8418

Work: 604-714-6566

TECHNICAL SKILLS

Languages: Java, SQL, PHP, LDAP, Javascript, Bash

Software: Linux (Ubuntu), Maven, Ant, SVN, Git, RPM, JUnit, IntelliJ, Eclipse

Enterprise: OAS, JBoss, Weblogic, MS AD, MS SQL, Oracle 10G, MySQL, OC4J, Apache

Security: PKI, X509, TLS/SSL, Application Logging and Log Analysis

EMPLOYMENT HISTORY

<p>Mar 2014 - current</p>	<p><i>Senior Software Engineer</i> CENTRAL 1 CREDIT UNION central1.com Git ninja and airborne firefighter. I solve production bugs no one else can. Cut build times in half for 50 developers (saving the company at least \$1.5 million). Java, Javascript, and SQL wizard. Tamer of the pom poms. Inspiring leader to my one dear co-op student.</p>
<p>Jan 2011 - current</p>	<p><i>Masters Student (2011) and PhD Student (2012)</i> UNIVERSITY OF BRITISH COLUMBIA, DEPARTMENT OF COMPUTER SCIENCE cs.ubc.ca Graduate student of software engineering under Dr. Gail C. Murphy. Received a Killam Award (UBC's top TA award) for my work with the UBC undergraduate courses, CPSC 210 - Software Construction and CPSC 310 - Introduction to Software Engineering.</p>
<p>April 2010 - Dec 2013</p>	<p><i>Committer</i> APACHE SOFTWARE FOUNDATION, COMMONS PROJECT commons.apache.org Open Source committer focused primarily on 'commons-codec.jar' sub-project: http://commons.apache.org/codecs/.</p>
<p>Jan 2008 - Dec 2010</p>	<p><i>Consultant</i> SELF-EMPLOYED, VICTORIA, BC. juliusdavies.ca Java, SQL, LDAP, and Web Services consultant for various organizations in Victoria and Vancouver, British Columbia, while finishing my computer science undergraduate degree.</p>
<p>Sept 2005 - Dec 2007</p>	<p><i>Instructor (Part Time)</i> CAPILANO COLLEGE, NORTH VANCOUVER, BC. capcollege.ca Instructor for INTE 202, Advanced Web Authoring. <ul style="list-style-type: none"> ▪ Introduced students to server side web programming with PHP. </p>

- Introduced HTML forms and server side form validation.
- Reinforced HTML, CSS, and JavaScript skills.
- Stressed W3 validation and cross-browser compatibility:
(Windows, Mac OS X, Linux) x (IE, Firefox, Safari) x (Screen, Print)

Sept 2001 -
Dec 2007

Application Developer - Senior (2005), Intermediate (2003), Junior (2001)
CENTRAL 1 CREDIT UNION, VANCOUVER, BC.

cucbc.com

Java Developer for online banking, internal infrastructure, and staff-facing applications at CUCBC.

- Wrote web-based log analyzer for helpdesk. Improved turnaround on many types of support calls. Secured using 2-factor authentication: Windows Password (LDAP) + SSL Client Certificate.
- Replaced Excel-based phone directory with LDAP-backed web system.
- Java developer for [MemberDirect](#), the Online Banking system used by over 250 Credit Unions across Canada.
- Re-engineered online banking web application to support personal and spousal accounts under a single login.
- Integrated with CUCBC's Wire-Transfer and Account Sweeping systems.
- Developed [ISO 8583 WebParser](#) to help diagnose and debug problems communicating with banking-systems.

EDUCATION

University of Victoria, Victoria, BC, Canada.

BSc Honours with Distinction, Computer Science (2011)

BFA, Creative Writing (2001)

Awards and Scholarships

Date	Description	Value
2012-2015	Alexander Graham Bell Canada Graduate Scholarship (CGS)	\$105,000
2013	Killam Graduate TA Award, UBC	\$1,000
2012	Graduate TA Award, Department of Computer Science, UBC	n/a
2011	Graduate Fellowship, University of Victoria	\$13,500
2011	1st place, Student Research Competition (SRC), Undergraduate, 33rd International Conference on Software Engineering (ICSE-2011)	\$500
2011	1st place, Best Mining Challenge, 8th Working Conference on Mining Software Repositories (MSR-2011)	n/a

2010 Undergraduate Research Scholarship, University of Victoria \$1,500

Major Publications

- [1] [Davies J.](#), [Germán D. M.](#), [Godfrey M. W.](#), [Hindle A.](#)
Software Bertillonage: Determining the Provenance of Software Development Artifacts. *Journal of Empirical Software Engineering* (Special Issue).
- [2] [Davies J.](#), [Germán D. M.](#), [Godfrey M. W.](#), [Hindle A.](#)
Software Bertillonage: Finding the Provenance of an Entity. 8th International Working Conference on Mining Software Repositories [MSR-2011](#), Honolulu, Hawaii, May 21st-22nd, 2011. [Download PDF \(461KB\)](#).

20 of 61 full research papers accepted: 32.8%. Among best 6 invited to submit extended versions to Springer's Journal of Empirical Software Engineering.

- [3] [Germán D. M.](#), [Di Penta M.](#), [Davies J.](#)
Understanding and Auditing the Licensing of Open Source Software Distributions. International Conference in Program Comprehension [ICPC-2010](#), Braga, Portugal, June 30th - July 2nd, 2010. [Download PDF \(226KB\)](#).

15 of 76 full research papers accepted: 19.7%.

Full publication list:

<http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/d/Davies:Julius.html>

Academic Service

2013, Web Chair, 10th Working Conference on Mining Software Repositories
 2013, PC (Challenge Track), 10th Working Conference on Mining Software Repositories
 2012, PC (Challenge Track), 9th Working Conference on Mining Software Repositories
 2011, Referee, IEEE Software
 2011, Additional Reviewer, 27th IEEE International Conference on Software Maintenance

Presentations and Lectures

2012, **Refactoring**, 90 minutes, presented to Dr. Neil Ernst's undergraduate course on software engineering at the University of British Columbia (CPSC 310).

2012, **Intro to Java**, 60 minutes, presented to Meghan Allen's undergraduate course on software construction at the University of British Columbia (CPSC 210).

2012, **Software Bertillonage**, 60 minutes, presented to Dr. Abram Hindle's graduate course on Topics in Mining Software Repositories, Processes, and Artifacts at the University of Alberta (CMPT 664).

Course Highlights

MATH 122	A+ (UBC: 228)	durocher	Logic and Foundations
CSC 115	A+	kaminski	Fundamentals of Programming: II

CSC 225	A+	pan	Algorithms and Data Structures: I
CSC 320	A+	myrvold	Foundations of Computer Science
CSC 326	A+	ruskey	Algorithms and Data Structures II
CSC 330	A+	zastre	Programming Languages
CSC 490	A+	german	Directed Studies
CSC 499	A+	stanger-ross	Technical Project (co-supervised with german)
SENG 330	A+	kaminski	Object-Oriented Software Development
SENG 450	A+	wu	Network Centric Computing

Complete Computer Science Transcripts: <http://juliusdavies.ca/resume/school.html>