Kevin Jalbert

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Objective

To acquire a position that utilizes my strong Software Engineering background and Computer Science skill set. My ideal position involves working in a team environment that is challenging, innovative, and exciting.

Key Points

- Excellent academic record with numerous honors and awards.
- Strong technical writing and presentation skills including the ability to be concise and communicate to technical and non-technical audiences.
- Willingness to develop, improve and optimize products and services.
- Dedication to Software Engineering demonstrated through open source and community involvement.

Programming Languages

Bash, C#, Java, Python, Ruby

Software Skills

Software Engineering Design, UML, Concurrency, Software Quality and Testing, Linux, Git, Machine Learning, Data Mining, Mutation Testing

Education

University of Ontario Institute of Technology (UOIT) — Oshawa, Ontario, Canada
Master of Science in Computer Science — Sep. 2010 – Sep. 2012 (expected)
Cumulative GPA of 4.18 / 4.30.

UOIT — Oshawa, Ontario, Canada
Bachelor of Software Engineering — Sep. 2006 – Apr. 2010
Cumulative GPA of 3.44 / 4.30.

Research Experience

Graduate Research Assistant, UOIT — Oshawa, Ontario, Canada
Software Quality Research Lab — Aug. 2010 – Present
Worked on research projects related to concurrency, static and dynamic analysis, software metrics, testing, and machine learning.

Undergraduate Research Assistant, UOIT — Oshawa, Ontario, Canada
Software Quality Research Lab — May 2010 – Aug. 2010
Developed a new approach to automatically fix Java concurrency bugs using genetic algorithms.

Undergraduate Research Assistant, UOIT — Oshawa, Ontario, Canada
Software Quality Research Lab — May 2009 – Aug. 2009
Developed an optimized approach to regression testing of concurrent Java programs using code analysis and information about previously detected bugs.

Professional Development

- Assisted with reviewing papers for three international conferences/workshops:
  - International Conference on Computer Science and Software Engineering (CASCON 2012).
  - International Workshop on Mutation Analysis (Mutation 2012).
  - Symposium on Search Based Software Engineering (SSBSE 2011).
- Organized a poster session at the 2011 Fall Meeting of the Consortium for Software Engineering Research (CSER).
- Organized tutorials on topics including unit testing, version control with *Git* for UOIT undergraduate and graduate students.
- Contributed to open source software on *GitHub*

Certifications

UOIT – Teaching Certificate May. 2012

Honors and Awards

External Ontario Graduate Scholarship, UOIT Sep. 2012 – Sep. 2013
Scholarship for graduate studies in Ontario *(Declined)*.

External Ontario Graduate Scholarship, UOIT Sep. 2011 – Sep. 2012
Scholarship for graduate studies in Ontario.

Dean's Graduate Scholarship – Master's Level, UOIT Sep. 2011 – Sep. 2012
Scholarship for graduate studies at UOIT. Requires a minimum 3.7 GPA.

Institutional Ontario Graduate Scholarship, UOIT Sep. 2010 – Sep. 2011
Scholarship for graduate studies at UOIT.

Dean's Graduate Scholarship – Master's Level, UOIT Sep. 2010 – Sep. 2011
Scholarship for graduate studies at UOIT. Requires a minimum 3.7 GPA.

NSERC – Undergraduate Student Research Award, UOIT May 2010 – Aug. 2010
Funding for undergraduate research at UOIT.

NSERC – Undergraduate Student Research Award, UOIT May 2009 – Aug. 2009
Funding for undergraduate research at UOIT.

President's List, UOIT Sep. 2008 – Apr. 2010
For attaining a semester GPA of at least 3.80/4.30 (undergraduate).

Teaching Experience

Teaching Assistant, UOIT Oshawa, Ontario, Canada
Software Quality – CSCI 3060U/ENGR 3980U Jan. 2012 – Apr. 2012
Introduced and demonstrated various concepts on agile development and testing for software systems *(Two Sections)*.

Teaching Assistant, UOIT Oshawa, Ontario, Canada
Introduction to Computer Science – CSCI 1030U Sep. 2011 – Dec. 2011
Introduced the basic concepts of computer science as well as an introduction to computer programming *(Two Sections)*.

Teaching Assistant, UOIT — Oshawa, Ontario, Canada
Programming Workshop – CSCI 2030U — Jan. 2011 – Apr. 2011
Introduced modern concepts in program design along with features of object oriented programming languages *(Two Sections)*.

Teaching Assistant, UOIT — Oshawa, Ontario, Canada
Principles of Computer Science – CSCI 2010U — Sep. 2010 – Dec. 2010
Introduced students to general computer programming principles and the analysis of algorithms and data structures *(One Section)*.

Teaching Assistant, UOIT — Oshawa, Ontario, Canada
Software Engineering I: Requirements, Design and Analysis – CSCI 3040U — Sep. 2010 – Dec. 2010
Introduced students to the stages software development life cycles and software design with UML *(One Section)*.

Publications

J.S. Bradbury, I. Segall, R. Farchi, K. Jalbert and D. Kelk. "Using Combinatorial Benchmark Construction to Improve the Assessment of Concurrency Bug Detection Tools", *In Proc. of the 10th Workshop on Parallel and Distributed Systems: Testing, Analysis, and Debugging (PADTAD 2012)*, pages 25–35, Minneapolis, Minnesota, Jul. 2012.

K. Jalbert and J.S. Bradbury. "Predicting Mutation Score Using Source Code and Test Suite Metrics", *In Proc. of the Workshop on Realizing Artificial Intelligence Synergies in Software Engineering (RAISE 2012)*, pages 5, Zurich, Switzerland, Jun. 2012. **Best Paper Award**.

J.S. Bradbury and K. Jalbert. "Automatic Repair of Concurrency Bugs", *In Proc. of the 2nd International Symposium on Search Based Software Engineering (SSBSE 2010) – Fast Abstracts*, pages 2, Benevento, Italy, Sep. 2010.

K. Jalbert and J.S. Bradbury. "Using Clone Detection to Identify Bugs in Concurrent Software", *In Proc. of 26th IEEE International Conference on Software Maintenance (ICSM 2010)*, pages 5, Timisoara, Romania, Sep. 2010.

J.S. Bradbury and K. Jalbert. "Defining a Catalog of Programming Anti-Patterns for Concurrent Java", *In Proc. of the 3rd International Workshop on Software Patterns and Quality (SPAQu'09)*, pages 6–11, Orlando, Florida, USA, Nov. 2009.

Posters

K. Jalbert, C. LeBlanc, C. Forbes, R. Liscano and J.S. Bradbury. "Eclipticon: Eclipse Plugin for Concurrency Testing", *In 2011 Fall Meeting of the Consortium for Software Engineering Research (CSER)*, Markham, Ontario, Canada, Nov. 2011. **Best Poster Award**.

K. Jalbert and J.S. Bradbury. "Predicting Difficulty of Detecting Bugs using Source Code Metrics", *In 2011 Summer Meeting of the Consortium for Software Engineering Research (CSER)*, Kingston, Ontario, Canada, Jun. 2011.

K. Jalbert and J.S. Bradbury. "A Tool for Automatically Repairing Concurrency Bugs", *In Technology Showcase at the International Conference on Computer Science and Software Engineering (CASCON 2010) & the 2010 Fall Meeting of the Consortium for Software Engineering Research (CSER)*, Markham, Ontario, Canada, Nov. 2010.

K. Jalbert and J.S. Bradbury. "Using Clone Detection to Identify Bugs in Concurrent Software", *In Proc. of 26th IEEE International Conference on Software Maintenance (ICSM 2010)*, Timişoara, Romania, Jun. 2010.

K. Jalbert and J.S. Bradbury. "Using Bug Patterns in the Regression Testing of Concurrent Software", *In Technology Showcase at the International Conference on Computer Science and Software Engineering (CASCON 2009) & the 2009 Fall Meeting of the Consortium for Software Engineering Research (CSER)*, Markham, Ontario, Canada, Nov. 2009.