

# Lu Liu

Phone: 416-838-8786

Website: [www.rullie.com](http://www.rullie.com)

E-mail: [b2bsgm@gmail.com](mailto:b2bsgm@gmail.com)

Software Engineer @ University of Waterloo

## Skills and Attributes

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- Main language: Java, C/C++
- Extensive work experience with Spring Framework, Tomcat, Weblogic, Oracle, SQL/MX, DB2, MySQL, Common Lisp, Perl, PHP, javascript, and OpenGL
- Comfortable with various OS platforms such as Linux, Windows, Solaris, Mac OS X
- **Fast learner**, mostly self taught, love to pick up new things
- Understand software modelling and design from both theoretical and practical perspectives
- Outstanding **leadership** and **interpersonal** skills, fluent in English and Mandarin, very easy going and proactive
- Is referred to as a productive programmer by colleagues

## Current Projects/Activities

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- Characterized height map generation and flood simulation
- Learning WebGL
- Various web 2.0 projects
- Learning: Tornado HTTP server, linear regression (machine learning)

## Work Experience

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### **DB2 Functional Verification - co-op**

**International Business Machines Corp. (IBM), Markham, Ontario, September/2009 - December/2009**

- Responsible for DB2 cluster configuration's high availability functional and service testing
- Gathered requirements for test scenarios
- Implemented a library of Perl macros to assist automated testing
- Designed and implemented a suite of test scripts targeted at hardware failure scenarios
- Successfully delivered high quality work under short time line
- Actively search for ways to improve work efficiency and quality

### **Tivoli Workflow Analyst - co-op**

**International Business Machines Corp. (IBM), Markham, Ontario, January/2009 -**

## **April/2009**

- Developed an in-house Java application for monitoring code quality
- Integrated Tivoli Provisioning Manager: installations, authoring workflows, and problem diagnostics
- Collaborated effectively with colleagues at remote locations
- Demonstrated ability to identify and resolve problems in a proactive manner

### **Java EE Developer - co-op**

**Canadian Imperial Bank of Commerce (CIBC), Toronto, Ontario, September/2007 - December/2007, May/2008 - August/2008**

- Delivered quality Java modules targeted to increase user lookup efficiency with documentations
- Demonstrated knowledge in technologies involving Java EE, Weblogic, Mercury, Ant, Oracle, SQL/MX
- Exporting Java data to Microsoft Word file using WordML
- Spreadsheet consolidation automation
- Demonstrated outstanding management skills and interpersonal skills
- Proposed new ways of managing business rules and developed a prototype of the system in Java

### **Web Application Developer - co-op**

**Avetti.com, Toronto, Ontario, January/2007 - April/2007**

- Improved existing user interface using Velocity template engine
- Received client requests and delivered accurate practical solutions to the problems
- Utilized Spring Framework, Hibernate, Eclipse IDE and Apache Tomcat
- Adapted to new systems and environment rapidly
- Produced high quality technical documents

### **Database Application Developer - co-op**

**Castit Software, Georgetown, Ontario, May/2006 - August/2006**

- Implemented several product quality control modules for CastQ
- Designed and created dynamic reports in FoxPro
- Developed a solid understanding of relational database in Microsoft SQL Server

## **Education**

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### **Candidate For Bachelor Of Software Engineering**

**University Of Waterloo (2005 - Present)**

- Proposed, designed, and implemented a prototype for advanced cruise control system
- Received third place for 4th year software engineering design project
- Wrote an operating system and a ray tracer for courses
- Successfully designed and implemented a navigation system for Lego Robot

- University of Waterloo President's Award

## **Computing Insights 2004**

### **University Of Toronto (2004)**

- Received Certificate of Achievement
- Developed efficient algorithm for self-learning Tic-Tac-Toe
- Familiarized with Java Swing class and GUI development

## **Volunteer**

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### **Markham Youth Leadership Program**

#### **Middlefield Collegiate Institute, Markham, Ontario, September/2003 - May/2004**

- Successfully organized and supervised community wide social events to benefit the needs of the youth in the community by promoting awareness on common adolescent issues
- Worked with large number of participants (up to four hundreds)
- Cooperated with teammates, synthesize ideas and solved problems

### **MentorShip Lead Mentor**

#### **Middlefield Collegiate Institute, Markham, Ontario, September/2004 - June/2005**

- Assisted grade 9 students with homework and social life
- Supervised other mentors

### **Yearbook Cover Designer**

#### **Middlefield Collegiate Institute, Markham, Ontario**

- Won school yearbook cover design contest in 2004 and 2005

## **Interests**

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- Software design patterns
- Competitive StarCraft and e-sports
- Gentoo Linux
- lisp
- Singing/hiphop dance
- Watercolour painting