

## MICHAEL BAE

3<sup>rd</sup> Yr. Computer Science Minor in Commerce

### TECHNICAL SKILLS

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**Languages:** Java, C#, JavaScript, C, C++, Perl, Racket  
**Web:** MVC Spring, XML, CSS, HTML, JSP, GWT, JSON  
**IDE:** Eclipse, Visual Studio, IBM Rational Jazz, Spring Tool Suite  
**Framework:** ASP .Net, Spring Framework (Aspect Oriented Programming)  
**Open Source:** Maven, Tomcat, SVN, CVS, Git  
**Database:** SQL, Oracle DB, MySQL  
**Testing:** Specflow, Selenium, JUnit, NUnit, GDB  
**Software Practice:** Scrum, Agile  
**Operating Systems:** UNIX, Linux, OS X, Windows

### WORK EXPERIENCE

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**Software Developer** at Vision Critical 2014.09 ~ 2015.04

- Worked on VC's SingleSignOn project and Tenant Management API
- Fixed defects in different area of SSO and worked on thinkecture, SSO open source solution
- Built automation test for TenantManagement API, and UI automation for one of VC apps
- Built a small web server, stubby, to test public API solution in Layer7Gateway

**Software Developer** at Canada's Michael Smith Genome Sciences Center 2013.01 ~ 2013.04

- Worked on GSC's Laboratory Information Management System(LIMS)
- Developed LIMS that meets Project Management Team's requirement
- Built a web-based user interface for streamlined status updates
- Identified sources of required information within the LIMS databases.

**Web Software Developer** at Alcatel Lucent 2012.09 ~ 2012.12

- Worked on Alcatel's Knowledge Base 2.9 and 3.0, IP support portal web application
- Implemented open source APIs and libraries, including Spring Framework and Hibernate
- Participated in the project's scrum design meetings and initiated add-ons to the project.
- Brought several changes and adds to the existing Web UI to improve the user experience

### TECHNICAL PROJECTS/EXPERIENCE

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**Allegro Music Store Database System** 2013.07~2013.08

- Class project of group of four students
- Designed and implemented a database for an enterprise and some basic operations required by the primary users of the database using Java and Oracle DB.
- With our great team chemistry, we finished the project on time, and received 99% grade.



### **Shooter – Android/iPhone game app**

2013.04~2013.08

- Personal side project of group of three students
- Built the shooting game using JavaScript, HTML and CSS then used PhoneGap to deploy on Android and iPhone.

### **Vancouver School Web Application**

2012.02

- Used BC school data to locate the closest school with directions, and displayed school information
- Built the web application in Java using the RTC and GWT, and debugged in GWT development
- Cross-compiled Java code into highly optimized JavaScript for multiple browser implementations
- The project used Scrum and pair programming to extend our group members' learning

### **ISA (Instruction Set Architecture) – Y86**

2012.02 & 2013.05~ 2013.06

- Implemented various memory and sequential/pipelined CPU behaviors in Java
- Cross-checked the behaviors in C and assembly code
- Simulated concurrency, synchronization, and virtual memory in C and in UNIX

### **Android Guide Map Application**

2011.12

- Designed the data model of the location application in Java language
- Set up an Android simulator, cache, and imported routing service application
- Used Eclipse's built-in refactoring tools to refactor code

### **UBC Tour Website**

2011.07

- Group leader of a team of three members
- Responsible for the design of the navigational structure of the website
- Unified the visual aspects of the pages using CSS, and enhanced the functionality of “Mouse-over” map using JavaScript

## **EDUCATION**

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**University of British Columbia, Vancouver BC**

2010 ~ Present

President's Entrance Scholarships

## **VOLUNTEER EXPERIENCE**

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**Tech Trek, UBC**

2012.03 ~ Present

- Assisted high school students with their learning of computer programming

**Reading Week Elementary School Teaching Assistance, Vancouver BC**

2011.04

- Helped students to make model cars to explore basic math and environmental issues

## **EXTRACURRICULAR ACTIVITIES**

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UBC Computer Science Tri-Mentoring Program

2012 ~ Present

UBC SRC Futsal league

2013.01 ~ Present