



# Tom Jin

4<sup>th</sup> Year Combined Honours Computer Science and Microbiology  
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## Skills

### Programming

Java  
PHP  
C/C++ (moderately)  
MySQL/SQLite

HTML5/CSS3  
JavaScript/jQuery  
Python  
C# (moderately)

### Tools

Eclipse  
Android Studio  
Visual Studio  
Ant/NAnt

Apache Tomcat  
Git/Gerrit/Mercurial  
Elasticsearch  
Photoshop

## Work Experience

### Bioinformatics/Coop Developer

Sept 2014 – Dec 2014

BC Cancer Agency

- Built a web-based realtime cancer genomics visualization tool with D3.js to empower data discovery
- Created and optimized queries to manipulate up to a terabyte of denormalized data using Elasticsearch

### Agile Developer

Jan 2014 – Aug 2014

SAP

- Helped implement administrative controls, dynamic text, and publishing features for SAP Lumira Desktop
- Developed solutions for customer-created defects related to the Business Objects Enterprise suite and the IPoint for Microsoft Sharepoint product as part of a Scrum content management team
- Implemented new features using C#, Java, and JavaScript and modified build scripts to facilitate upgrades
- Fabricated and executed legacy and regression tests using the Selenium framework

### Undergraduate Academic Assistant

July 2013 – Aug 2014

University of British Columbia

- Designed a PHP-based solution that uses Munkres algorithm to find optimal matches in CSV data files in order to pair students with their ideal mentors
- Collaborated with course instructors to overhaul labs in a second year Java software development course

### Research Software Developer (NSERC USRA)

May - Aug 2013

UBC Laboratory of Computational Intelligence

- Wrote Python scripts to analyze and extract usage data from text log files
- Designed an Android wheelchair training app, the PHP-based server backend, and a component management and progress tracking system for a nation-wide study
- Created the web interface and data visualizations of a concept activity and location tracking software

### Teaching Assistant CPSC 210 (Java)

Jan - April, Sept - Dec 2013

University of British Columbia

- Taught several lab sections of an introductory Java course with a final Android programming project
- Marked projects and exams of over two hundred students with due care

## Personal Projects

### NextTransit Android App

Mar 2012 - Present

Kinetiq Labs

- Engineered transit apps for Vancouver, York, and Seattle that feature realtime and offline stop times, live bus locations, and 20000+ installs
- Processed GTFS (transit) data text files using C++ to prepare the data for an SQLite database

### **Ponu News for Android and iOS**

Sept 2012 - Present

- Developed a native Android app and HTML5 Phonegap powered iOS app to aggregate and deliver the latest community news and media
- Parsed RSS data and raw HTML using PHP scripts to generate XML files containing updates from a variety of fan websites

### **University Hill Secondary Website**

2011

- Winner, 2011 BCSSA and Apple Canada Technology Scholarship
- Designed a PHP-based website to deliver daily bulletins and classroom pages to over 600 students
- Built a content management system from scratch to enable easy management of school webpage

## **Education**

### **University of British Columbia**

**Graduation May 2016 (Anticipated)**

4<sup>th</sup> year Combined Honours Computer Science and Microbiology & Immunology  
Overall GPA 92% (A+)

### **University Hill Secondary School**

**Class of 2011**

Honour Roll and Principal's List student, overall GPA 95%

**SAT** Reasoning: 2330, Physics: 800, Chemistry: 790, Math II: 800

## **Awards and Publications**

- *Mobisense: Lifespace Tracking and Activity Monitoring on Mobile Phones*. With I. Dewancker, J. Borisoff, and I. Mitchell, 2014 RESNA Conference Paper.
- *METTA: A Tablet-Based Platform for Monitored at-Home Training as Demonstrated through the EPICWheels Wheelchair Skills Training Program*. With I. Mitchell, A. Kim, E. Giesbrecht, and W. Miller, 2014 RESNA Conference Paper.
- 2014 UBC CS Undergraduate Teaching Assistant Award
- 2013 NSERC USRA (valued at \$8000)
- 1<sup>st</sup> place Judge's choice and 1<sup>st</sup> place People's choice for 2013 UBC ePortfolio competition
- 2012 UBC Trek Excellence Scholarship
- 2011 BCSSA and Apple Canada Technology Scholarship

## **Volunteer Work**

### **Visitor Experience Volunteer**

2009 - Present

Vancouver Aquarium, Vancouver, BC

780+ volunteer hours

- Assisted hundreds of guests each shift with directions, maps, and general information
- Inspired and educated guests with facts about marine animals and our ocean habitats

## **Interest**

- Badminton
- Whiteboard doodling
- Walks in the forest
- Travelling to new cities and towns
- Sampling global cuisine
- UBC CS Student Development Committee

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