

# Michael Yuan

3B COMPUTER ENGINEERING

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## TECHNICAL SKILLS

### Languages

Experienced in: Java, Ruby, JavaScript, MATLAB  
Familiar with: Golang, HTML5, Batch, Perl, Shell, C++, C, Python

### Tools and Frameworks

Rails, Sinatra, jQuery, node.js, Spring, OSX, Linux, Git, VirtualBox, Eclipse, Visual Studio, RubyMine, MATLAB, Sublime, Gradle, Android, MongoDB, more

## EXPERIENCE

### Better. (Social+Capital Partner)

Palo Alto, CA, USA

### Software Engineer

Jan. – May 2015

- Implemented versatile and comprehensive search APIs for datasets containing more than 300,000 rows
- Performed data migrations to reorganize and clean legacy data
- Auto-correction, validation, and suggestion feature for emails
- Worked on other smaller features such as avatar auto-updating

### Pitney Bowes Innovation Center

Shelton, CT, USA

### Security Developer

May – Sept. 2014

- Operated in an R&D team developing novel cryptosystems in Java
- Implemented a new cryptosystem twice as efficient compared to existing implementations (patent pending)
- Wrote private matching schemes using homomorphic cryptography
- Wrote a Java app that facilitates private matching online

### Delego Software Inc. (SAP Partner)

London, ON, Canada

### Software Engineer

Aug. – Dec. 2013

- Operated on SCRUM TDD team using Gerrit, Gradle, Eclipse, Git, Java
- Architected new company API while fixing bugs in Java
- Wrote secure clearing houses to communicate and process money transactions between companies

### IBM

Toronto, ON, Canada

### QA Developer

Jan. – Apr. 2013

- Wrote and debugged over 40 testing procedures for DB2 products
- Created test cases in Batch, Perl, and Shell for a variety of OSes

## EDUCATION

### University of Waterloo

Waterloo, ON, Canada

**Courses:** Compilers, Digital Hardware Systems, Embedded Systems, Data Structures and Algorithms, Operating Systems, Digital Computers, Microprocessors, Introduction to Programming in C#

**Interests:** algorithms, math, programming, guitar, basketball, weight lifting

## PROJECTS

### Hack the North

Annual hackathon hosted by the uWaterloo mid September.

### tripflow

Currently working on a webapp that crowd sources travel itineraries to make vacation or trip planning efficient.

### Project Euler

Math enthusiast. Solved 70+ problems solved on [projecteuler.net](http://projecteuler.net). Also wrote other useful mathematical algorithms.

### AI and Machine Learning

[CS188: Artificial Intelligence](#)  
(University of Berkeley)  
[Machine Learning](#)  
(University of Stanford)

### Android Apps

#### Pedometer

Elementary GPS. Counts steps, calculates displacement, path finds, and displays location.