

## Skills

**Languages:** Java, C++, Python, Javascript, HTML, CSS, experience with SQL, Shell

**Frameworks/Tools:** Spring MVC, Node.js, AngularJS, Bootstrap, Tkinter, Docker, Express, MongoDB, PostgreSQL

**Libraries:** JUnit, Google Maps APIs, jQuery

## Work experience

### Junior Software Engineer, Irdeto

September 2015 – Present

- Worked in an Agile environment on the Online Piracy Detection team
- Developed REST APIs with Spring MVC using microservice architecture and unit tested components with JUnit
- Designed and implemented a front-end web UI with jQuery, AngularJS, and MVC philosophy to interact with microservices
- Integrated and deployed components into Mesos and AWS with Docker, Python, and Shell scripts
- Built a GUI in Python using Tkinter to simplify deployment of Docker containers
- Wrote SQL scripts to migrate hundreds of thousands of rows of PostgreSQL data
- Created entity relationship diagrams to provide overview of interactions between microservices

### Technical Process Analyst, CIBC

January – April 2015

- Eliminated less profitable products by conducting financial analysis across business units
- Improved inefficient processes in management, resulting in 10% higher productivity
- Created legacy of Excel templates, macros, and documentation for future use

### Software Engineering Intern, Ciena

August 2013

- Developed a scalable GUI in Python with PyGTK to simplify network card simulation

## Projects

### Project Mercury

November 2015 – Present

- A service to intelligently pick meeting locations for users while keeping their locations anonymous
- Technical lead for front-end; also working on back-end using MEAN stack

### Project Euler

August 2013 – Present

- Completed 35 challenge problems in Python, in top 8% of all users

### “Amaze” Website Startup, Queen’s Startup Summit

February 2015

- Placed 2<sup>nd</sup> out of 14 by pitching a web platform for unique entertainers to market themselves
- Designed and partially implemented a website with Bootstrap

### Myo-Controlled Robotic Crane

December 2014

- Mapped Myo Armband hand gestures to a robotic car using C++, RobotC, and Bluetooth
- Optimized RobotC memory usage for low memory NXT controller

## Interests and Activities

- **Language:** Aspiring polyglot: fluent in English, French, and Mandarin; basic knowledge of Spanish
- **Music:** Royal Conservatory of Music level 10 piano; also plays trumpet and French horn
- **Sports:** Casual rock climber and soccer player; National Lifeguard Service certified