

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 – December 2015

- Worked in an Agile environment on the Online Piracy Detection team
- Developed REST API microservices with Spring MVC and unit tested components with JUnit
- Designed and implemented a front-end web UI with jQuery, AngularJS, and MVC philosophy to interact with microservices
- Designed a new feature that would scale the business multiplicatively and began implementation
- 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 PostgreSQL data between releases and schema changes
- 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
- Increased productivity of team of solution architects by 10% by centralizing resources and eliminating inefficient processes in management
- 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 40 challenge problems in Python, in top 8% of all users

“Amaze” Website Startup, Queen’s Startup Summit

February 2015

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

Gesture Controlled Robot Car

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
- **Leisure:** National Lifeguard Service certified; casual rock climber and piano player