David Huang

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github.com/dghuang

Skills

Languages: Java, C++, Python, Javascript, HTML, CSS, experience with SQL, Shell
Frameworks/Tools: Node.js, AngularJS, Bootstrap, Tkinter, Docker, MongoDB
Libraries: JUnit, Spring MVC, Google APIs, Express, jQuery
Mechanical Design: AutoCAD, Solidworks

Work experience

Junior Software Engineer, Irdeto **September 2015 – Present**

- Developed REST API with Spring MVC and unit tested components individually with JUnit
- Designed and implemented API's front-end UI with HTML, CSS, jQuery and AngularJS
- Integrated and deployed components with Docker, Python scripts, and Shell scripts
- Built a GUI in Python using Tkinter to simplify Docker deployment
- Created entity relationship diagrams to provide high-level overview of complex interactions between components
- Wrote SQL scripts to migrate hundreds of thousands of rows of PostgreSQL data
- Worked in an Agile environment with bi-weekly sprints and daily stand-ups

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 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 that rapidly and automatically determines a central meetup location between users while keeping their locations anonymous
- Developed front-end and back-end using MEAN stack as well as material design principles

Project Euler **August 2013 – Present**

- Completed 35 challenge problems, in top 10% of all users

"Amaze" Website Startup, Queen's Startup Summit **February 2015**

- Placed 2nd by designing and partially implementing a web platform for unique entertainers to market themselves

Myo-Controlled Robotic Crane **December 2014**

- Mapped Myo Armband hand gestures to robotic car driving in C++ and RobotC

Education

BASc. Mechatronics Engineering, University of Waterloo **September 2014 – Present**

Relevant courses: Algorithms and Data Structures (C++), Materials, Circuits, Graphics