Justin Kim

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EDUCATION

B.S. Computer Science, University of Wisconsin-Madison   May 2019
- Algorithms, Calculus, Computer Engineering, Computer Graphics, Computer Networks, Cryptography, Data Structures, Database Management Systems, Discrete Mathematics, Information Security, Machine Organization, Matrix and Linear Algebra, Operating Systems
- Dean's List Spring 2017

EXPERIENCE

Software Engineering Intern   Oct 2019 ~ Present
Open Learning Exchange   Renton, WA
- Member of the command line interface team, worked on developing CLI commands for Raspberry Pis used as local servers in the field in refugee camps in Kenya
- Designed and implemented a service management function to build and maintain Docker containers
- Developed interfaces used by the company's Android remote control application to communicate with the Raspberry Pis and transmit real-time status information on running services through JSONs
- Performed quality assurance testing on any reported issues with the organization's various software packages and repositories.
- `Bash, Docker, Git, Raspberry Pi, Travis CI`

Administrative Coordinator   May 2014 ~ Apr 2016
Green River Center for Child Welfare   Seoul, South Korea
- Coordinated with Songpa-gu District Office to ensure adherence to government regulations
- Compiled proposals to attract sponsorship to fund center activities and expenses

PROJECTS

- **MyMDb REST API** (github.com/kjong/mymdb-rest-api)   `Java, Spring, MySQL`
  REST API for tracking movies and actors

- **Personal Website** (github.com/kjong/personal-site)   `Python, Flask, AWS Elastic Beanstalk`
  Personal website to display resume and projects

- **RPG Reddit Bot** (github.com/kjong/rpg-reddit-bot)   `Python`
  Reddit bot that continuously monitors Reddit comments for a specified keyword and automatically generates a custom role-playing game character tied to the commenter's username

- **Twitter Sentiment Analysis** (github.com/kjong/how-does-twitter-feel-about-it)   `Python`
  Twitter sentiment analysis tool that scrapes tweets containing specific hashtags and counts the number of positive, neutral, and negative tweets pertaining to the specified subject

Course projects included:
- Implementations of Linux ps, make, and malloc commands   `C`
- Ethernet learning switch and an IPv4 router   `Python, Switchyard`
- PCAP file analysis tool that detects ARP spoof attacks, TCP SYN port scans and floods   `Python`
- Real-time, animated, interactive 3D models   `JavaScript, Three.js`

SKILLS (in order of proficiency)

Programming Languages `Python, Java, Bash, C, HTML/CSS, JavaScript, SQL`
Libraries & Frameworks `Flask, JUnit, JavaFX, Three.js, Spring`
Tools & Technologies `Windows, Linux, Git, Raspberry Pi, Docker`
Spoken Languages `English (native), Korean (native)`