

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
- Put together 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, IntelliJ IDEA, Raspberry Pi, Docker
Spoken Languages English (native), Korean (native)