

YOUNSEO RYU

Undergraduate Student | La Jolla, CA
Seeking Software Engineering Internship

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EDUCATION

Bachelor of Science in Computer Science
University of California San Diego, CA

Expected June 2021

Associate in Science in Transfer Computer Science
De Anza College, CA

June 2019
GPA: 3.83/4.00

Relevant Coursework: Data Structures, Digital Systems, Computation Theory, Machine Learning

TECHNICAL SKILLS

Programming Languages C++, C, Java, Python, Go, HTML, JavaScript, CSS, Shell Scripting

Software & Tools Git, Vim, Unix, Valgrind, GDB, LaTeX, Photoshop

WORK EXPERIENCE

Software Developer - Intern
Crown Sterling

2020-03 - Present
Newport Beach, California

- Took the role of facilitating software delivery by **customizing backend libraries** for different operating systems based on design specifications.
- **Developed application modules** in C, Go, and JavaScript under the direction of lead programmers.
- Constructed and devised **functionalities for binary file operations**.
- **Improved OpenSSL** implementation by **replacing streams with buffers**.

Technical Assistant - Intern
Saline

2018-07 - 2019-09
Seoul, South Korea

- Studied **IP-XACT** and received training on **Magillem IP-XACT tools**.
- Researched relevant resources to assist members on **fixing and reporting bugs**.
- Worked as a technical assistant at **seminars** on IP-XACT at **Samsung Electronics** and **SK Hynix**.
- Assisted **setting up lab environment** and **hands on introduction** to Magillem IP-XACT packager.

PROJECTS

Fake News Detection Plugin. Created a **chrome extension** that determines if a news article is legitimate. Built **sign-in feature** using **Firebase**. Applied **CRUD operations** for **real-time voting feature** to track users' opinion using **Firestore database**. Integrated **APIs** to web scrape articles and **Google Cloud Platform** for ML.

Just-In-Case SOS Application. Developed a **Java-based Android application** that starts a livestream and location-sharing with your trusted friends, if you press a volume down button for 3 seconds. Implemented **RTMP** for **livestream**, **HLS** for the **video playback**, and **Google Cloud Platform** for **location sharing**. **Firebase** is used for creating friend groups.

Python Sudoku Solver. Implemented a **backtracking algorithm** and a **Pygame GUI** to build a program that solves any 9 x 9 sudoku problems.

C++ Data Structures Project. Led a team of four and implemented **templates**, **binary search trees**, and **hash tables** in to store, sort, and search in **Amazon Product Database** that includes ASIN, brand name, etc.

ACHIEVEMENTS

2nd place on "Best use of Mux Video API" at University of Southern California Hackathon (HackSC 2020). Mux is a company that focuses on video technology. My team used its APIs to power livestream in "Just-In-Case SOS Application", the project mentioned above.

Founder of Click the World, a tech club in De Anza College. **Coordinated events** with engineers working at companies like **Facebook** and **Google**. **Oversaw all committee activities**, and reported the results of Inter Council Club meetings at club meetings.