YOUNSEO RYU

Undergraduate Student| La Jolla, CA
Seeking 2020 Software Engineering Internship

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EDUCATION

Bachelor of Science in Computer Science   **Expected June 2021**
University of California San Diego, CA

Associate in Science in Transfer Computer Science   **June 2019**
De Anza College, CA   GPA: 3.83/4.00

Relevant Coursework: Data Structures, OOP, C++, Java, Vector Calculus, Linear Algebra, Statistics, Intro to ML

TECHNICAL SKILLS

Programming Languages	C++, C, Java, Python, HTML, JavaScript, CSS, Shell Scripting
Software & Tools	Git, Vim, Unix, Valgrind, GDB, LaTeX, Photoshop

WORK EXPERIENCE

Technical Assistant - Intern   *2018-07 - 2019-09*
Saline   *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.

Teaching Assistant   *2018-09 - 2019-03*
CIS Lab   *De Anza College, Cupertino, CA*

- **Tutored** students in **C++, Java**, and **assembly language**.
- **Significantly Increased work efficiency** by implementing a website that collects common questions asked by students.
- **Provided assistance**, including grading students' exams, clerical support, classroom management, and document coordination.

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. The project will be uploaded on the company's blog soon.

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.