**YOUNSEO RYU** yoryu@ucsd.edu

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**Seeking 2020 Software Engineering Internship** (408)533-5213

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-XACTat **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.