William Chung

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Projects

TRELS @ UC San Diego

Mar 2021 - Present // Placentia, CA (remote) // **JS, React**

- Receiving funding and faculty mentorship to pursue an extracurricular project which will benefit future UCSD students
- Collaborating closely with faculty and small team of students to update suite of educational Java applets, supporting full compatibility with modern web browsers and facilitating integration into course curricula
- Redesigning said web applications using React, focusing on improving user accessibility and refreshing the look and feel so the apps can better serve as useful learning tools for students

Subbed @ UC San Diego 🔗

Jan 2021 - Mar 2021 // Placentia, CA (remote) // **Java, Android Studio, Parse**

- Developed an Android subscription-tracking application called Subbed, allows users to manage their subscription services and related finances all in a single app
- Utilized Parse BaaS through Back4App to implement a remote database and achieve user authentication all the while saving time on backend development
- Awarded Most Innovative and Best Utility at CodePath Android Development Demo Day

Huffman Coding @ UC San Diego 🔗

Jan 2021 - Mar 2021 // Placentia, CA (remote) // **C++**

- Implemented command-line data compression tool based on Huffman coding algorithm, allowing for optimal compression and uncompression of any file
- Used custom input/output streams, enabling bitwise data manipulation and resulting in over 50% reduction in memory overhead
- Researched data structures available in C++ STL to program the most time- and space-efficient algorithms, leading to a linear time compression algorithm that minimizes memory usage

Experience

Embedded Software Developer @ UCSD ESW

Sep 2019 - Present // La Jolla, CA // **Embedded C++, Cayenne**

- Working on an independent, interdisciplinary team to create modules which will be used for remote data collection from renewable energy sources on campus
- Learning how to program a Raspberry Pi and integrating it into the power-monitoring module to relay data via an Internet connection for compilation and further analysis
- Supporting sustainability through engineering, with end goal being to promote expansion of renewable energy generation at UCSD

Education

UC San Diego

BS in Computer Science
Minor in Mathematics
Sep 2019 — Expected Jun 2023
GPA: 3.94 / 4.00
Provost's Honors

Relevant Courses

Comp. Org. & Sys. Programming

What is a computer & how does it work?

Advanced Data Structures

When & where to use specific data structures?

Discrete Mathematics

What mathematics underlie computer science?

Skills

Programming Languages
Java, C++, JS, Python

Frameworks
Git, Android Studio, Parse

Community Service

Masked Heroes Initiative 🔗

- UCSD Branch Founder & President, 2020-Present
- Helped donate over 20,000 masks to underprivileged healthcare centers and workers across CA

Activities & Interests

Tau Beta Pi Engineering Honor Society
- Member, 2021-Present

Lion Dance
- 2019-Present

Vietnamese Culture
- Proficient in Vietnamese
- Love exploring Vietnamese cuisine, but nothing beats a good homemade meal