

Keith Ho

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Education

University of California, San Diego

Graduated: Jun 2022

B.S. Mathematics-Computer Science with Minor in Cognitive Science

Major GPA: 3.5 | Minor GPA: 4.0

Relevant Coursework: Data Structures & Algorithms, Object Oriented Design, Software Tools & Techniques Lab, Data Science in Practice, Software Engineering, Principles of Computer Operating Systems

Skills

Languages: Java, C, C++, R, MATLAB, ARM Assembly, Python, HTML, CSS, JavaScript

Software & Tools: Unix, Bash, Vim, Visual Studio, LaTeX, Puppeteer

Work Experience

HCL Technologies | Software Engineer Intern | Remote

Jan 2022 - May 2022

- Worked under Engineering and R&D Services to research different techniques for object detection and recognition
 - Performed demos to internal and external teams to gather feedback and requirement changes
 - Optimized an existing computer vision model using a custom dataset to detect and recognize traffic lights in an urban environment using **Python** and computer vision
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Projects

Bullet Journal

May 2021

- Collaborated in a team of 9 to optimize the design and ensure the functionality of an online bullet journal
- Created and executed 50 automated software tests to locate and debug software problems using **Puppeteer**

Huffman Encoding and Compression

Feb 2021

- Implemented a file compression tool using the Huffman algorithm in **C++** with a header
- Performed file I/O operations to encode bits to the stream and decode bit sequences from the stream

IEEE Converter

Sep 2020

- Extracted the parts of a single-precision IEEE-754 floating point hexadecimal number
 - Utilized bitwise operations and worked with the stack in **ARM** and basic dynamic memory allocation
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Leadership

Alpha Phi Omega, Rho Pi Chapter — National Service Fraternity

Professional Development Chair

Sep 2021 - Feb 2022

- Presented and promoted 100+ networking opportunities regarding academic and professional development
- Spearheaded a resume critique program and educated 30+ prospective members on professional email etiquette
- Managed the Facebook and LinkedIn alumni pages by advertising essential updates to 700+ alumni

Finance Vice President

Feb 2020 - Jun 2020

- Raised \$600+ to donate to outside charities and to fund chapter events by contacting local restaurants and small businesses to plan, advertise, and execute fundraisers
- Managed all funds of the chapter and collaborated with the president to complete an annual audit
- Compiled financial reports of the chapter's financial condition to present at general body meetings