

ASTER LI

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EDUCATION

SANTA CLARA UNIVERSITY

September 2021 - May 2025

B.S. Computer Science and Engineering

Santa Clara, CA

Minor in Management Information Systems

- GPA: 3.8/4.0
- Relevant Coursework: Object-Oriented Programming & Advanced Data Structures, Theory of Algorithms, Computer Networks, Artificial Intelligence, Abstract Data Structures, Embedded Systems, Electric Circuits.
- Professional Affiliations: Society of Women Engineers (SWE), Association for Computing Machinery (ACM).

WORK EXPERIENCE

MARKKULA CENTER FOR APPLIED ETHICS

Santa Clara, CA

Researcher and Frontend Developer

May 2023 - Present

- Build custom WordPress plugins and databases that enable newsrooms to perform data analyses and efficiently audit diversity, equity, and inclusion in quoted sources.
- Develop UI/UX functionality for 5+ newsrooms, improving reporters' user experience by 85%.
- Collaborate with a cross-functional team of 5 engineers and a project director.
- Perform thorough unit and functional testing while practicing the software development life cycle, ensuring a high-quality product and minimizing potential issues.
- Skills used: PHP, SQL, Javascript, WordPress API

SANTA CLARA UNIVERSITY

Santa Clara, CA

Engineering TA-Grader

August 2022 - Present

- Grade and provide feedback on over 150 assignments per week for first-year engineering students.
- Manage workload and grading deadlines effectively, contributing to a smooth learning experience for students and efficient course administration.

ARCHITECTURAL FOUNDATION OF SAN FRANCISCO

San Francisco, CA

Engineering Intern

May 2020 – September 2020

- Engaged in job-readiness training highlighting professional communication and development goals.
- Enhanced architectural designs by incorporating sustainability principles and addressing real-world challenges such as COVID-19, resulting in more relevant and impactful projects.
- Produced professional-grade [3D models and floor plans](#) that improved project communication and visualization skills.

PROJECTS

LANDING PAGE | HTML, CSS, Flexbox

Dec 2022

- Independently designed and developed a [landing page](#) according to [UI design](#) specifications, demonstrating proficiency in HTML, CSS, and Flexbox layout techniques.

TERM PROJECT: LOONY LISTS | C, Visual Studio Code, Linux Terminal

May 2022

- Designed and built an abstract data type using a [linked list of circular priority queue arrays](#) in C language.
- Implemented stack and queue operations with efficient indexing capabilities.
- Applied the data type to solve complex maze problems and implement quick sort and radix sort algorithms.

SECOND CHANCES & EMPATHY HACKATHON | C, Firebase Framework, Excel

October 2021

- Collaborated with a 6-person multidisciplinary team and a non-profit homeless shelter organization to create a user-friendly database solution to the organizations' needs.
- Consolidated and categorize unorganized housing data that enhances data organization and access.

PROGRAMMING LANGUAGES

Advanced in C, C++, HTML/CSS, JavaScript, PHP, SQL; Proficient in Python, React, Verilog, Assembly
Technologies: Linux OS systems, jQuery/AJAX, Matlab, Firebase, Excel tools, Git, VS Code