

HEATHER DINH

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EDUCATION

University of California, Santa Barbara

Expected Jun. 2023

- B.S. Computer Science | GPA: 3.97 | Dean's Honors
- Relevant Courses: Object Oriented Design, Problem Solving with C++, Advanced Applications, Computer Organization and Logic Design, Discrete Mathematics, Multivariable Calculus, Probability Theory

EXPERIENCE

Treasurer

Jan. 2020 - Present

Society of Women Engineers

- Succeeded in allocating over \$4000 in scholarships to provide 35+ members an opportunity to attend the WE20 annual conference for women in engineering and technology
- Aided in transitioning the club to remote operation by arranging virtual social and professional events to promote SWE to incoming undergraduate students

Undergraduate Learning Intern

Jan. 2020 - Apr. 2020

UCSB Computer Science Department

- Mentored an intermediate C++ course with over 180 students by applying skills in communication, debugging, and visual representation of abstract concepts to achieve a 97%+ pass rate in the class
- Collaborated with staff and tutors in order to research impactful strategies to increase lab participation by 30% and solidify students' understanding of new data structures and algorithms

Lead Code Educator

May 2019 - Aug. 2019

Robotics and Things, Inc.

- Engaged 10+ students per session in the front-end web development curriculum by adopting a hands-on approach to build personal entrepreneurial websites in under 1 week
- Adapted to multiple skill levels by redesigning an advanced JavaScript module featuring popular interactive games such as "Breakout" and "Snake" to encourage students' interest in computer science

Software/Hardware Team

May 2018 - Jun. 2019

Simi Valley HS Robotics

- Developed autonomous software and contributed to drive train build by implementing Java functions to ensure robust and reliable performance in competition
- Competed alongside teammates to achieve a 4th place ranking at the 2018 FIRST Tech Challenge Palmdale Interleague Championships

PROJECTS

"Heat" Text Editor

Jul. 2020

- Implemented low-level character key processing in C by using escape sequences to map keyboard shortcuts and detect keywords for "Heat"-inspired syntax highlighting
- Featured file creation and saving by integrating file control library to provide users the ability to retain documents

Medical Information System

Aug. 2020

- Stored medical data by incorporating hash tables with separate chaining to create and provide access to profiles for doctors, patients, lab scientists, and other medical personnel
- Applied object-oriented C++ concepts and data encapsulation to effectively protect private medical records

File Search Engine

Dec. 2019

- Parsed through text files in a directory and located documents that meet the user-prompted criteria of a specified word and its threshold of instances within each file
- Employed doubly linked template classes to optimize insertion time and prevent repetition in code

SKILLS & INTERESTS

LANGUAGES: C++, C, Java, HTML, CSS, JavaScript, jQuery, Python, Objective-C

TECHNOLOGIES: GitHub, Visual Studio, Unix System, Test-Driven Development, Android, iOS

INTERESTS: Basketball, Piano, Longboarding, Baking Banana Bread

AWARDS & ACCOMPLISHMENTS

- Cal Poly Pomona Programming Contest 1st Place Grace Hopper Award, 2019
- Society of Women Engineers Certificate of Merit, 2018