

# 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: Data Structures and Algorithms, Object Oriented Design, 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

### Tennis Weather App

Sep. 2020

- Developed an interactive web-based application with ReactJS by integrating the Open Weather API to display user location and current climate conditions suitable for playing tennis
- Created a RESTful API by employing NodeJS and Express to handle HTTP requests and preserve previous location calls in a MySQL database

### "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

## SKILLS & INTERESTS

**LANGUAGES:** C++, Java, C, HTML, CSS, JavaScript, jQuery, Python

**TECHNOLOGIES:** GitHub, React, Node.js, MySQL, Visual Studio, Linux, Test-Driven Development

**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