HEATHER DINH

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EDUCATION

University of California, Santa Barbara **Expected Jun. 2023**

- B.S. Computer Science | GPA: 3.95 | Dean's Honors
- Relevant Courses: Data Structures and Algorithms, Object Oriented Design, Full-Stack Web Applications, Computer Architecture, Discrete Mathematics, Formal Languages and Automata, Multivariable Calculus, Probability Theory

EXPERIENCE

Software Engineer Intern **Jun. 2021 – Present**

ServiceNow, Applications Team

- Implemented a logging utility function for the backend MID server to display information, such as Java system properties and security providers, on startup to facilitate the debugging process for 150+ software engineers
- Incorporated the standardized ISO-8601 DateTime Format in the MID server logs, and created a time zone record on the instance database to maintain time zone consistency across 30+ global offices
- Explored the Agile SDLC by producing a Design Document detailing code changes, leveraging GitHub to oversee software development, collaborating with QE to ensure smooth branch merges, and demoing functionality during sprint reviews

Avionics Team Software Developer **Jan. 2021 – Present**

UCSB Rocket Propulsion Laboratory

- Led development of the TVC Telemetry Application project by directing UX research with 30+ engineers to create an efficient UI, drafting a Figma wireframe prototype, and building out the functionality with ReactJS and Electron
- Collaborated with Avionics team members to incorporate best hardware to interface with the rocket controls system, and NodeJS software to support Serial Port communication through the microcontroller (see project below)

Undergraduate Researcher **Nov. 2020 – Jun. 2021**

Washburn Lab, Marine Science Institute

- Developed a cross-platform web application by utilizing NodeJS to display ocean surface current vectors along the California coastlines to over 300 daily field researchers
- Integrated real-time ocean current velocity (RTV) map overlays with the Google Maps and HF-Radar Maps APIs to present comprehensive data at specified coordinates, and manipulate vector overlay features

Treasurer **May 2020 – Jun. 2021**

Society of Women Engineers

- Succeeded in allocating over $2000 in scholarships to provide 20+ 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 networking events to promote SWE to incoming undergraduate students

PROJECTS

TVC Telemetry Application, *RPL Avionics Team* **Aug. 2021**

- Designed a desktop application GUI that displays incoming telemetry data (such as orientation, angular velocity, altitude, and current state) during the flight of a Thrust Vector Controlled rocket using ReactJS and Electron
- Established radio communication with the TVC rocket by utilizing radio transceivers and STM32 microcontrollers that integrate with the *serialport* and *socket.io* software libraries to accurately process real-time data

Tennis Weather App, *Personal Project* **Dec. 2020**

- Developed a 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 when a location is searched

SKILLS & INTERESTS

LANGUAGES: Proficient in Java, JavaScript, HTML, CSS; Experienced in C++, C, Python

TECHNOLOGIES: React, Node.js, Angular, Agile Development, Unix Environment, GitHub

EXTRACURRICULARS: Theta Tau Professional Engineering Fraternity, Society of Women Engineers, UCSB Club Tennis, Guitar