

# HEATHER DINH

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## EDUCATION

### University of California, Santa Barbara

Expected Jun. 2023

- B.S. Computer Science | GPA: 3.83 | Dean's Honors
- Relevant Courses: Data Structures and Algorithms, Object Oriented Design, Full-Stack Web Applications, Human Computer Interaction, Offline Rendering, Computer Architecture, Discrete Mathematics, Probability Theory

## EXPERIENCE

### Datadog

Jun. 2022 – Present

*Software Engineer Intern, Dashboard Features Team*

*New York, NY*

- Built from scratch and launched an industry-standard, reusable Select component using React, Typescript, and Redux
- Implemented essential features for the Select such as filtering values from the API on text input change, feasible modification of previously selected values, flexibility with a user-creatable option, and keyboard navigation support
- Significantly improved and modernized the UI workflow of configuring Dashboard template variables by collaborating with product designers to discuss trade offs of design decisions and prototype the isolated component using Storybook

### Wish

Jan. 2022 – Mar. 2022

*Software Engineer Intern, Merchant Web Infrastructure Team*

*Remote, CA*

- Contributed to migration of the entire merchant frontend codebase from the monolithic structure to a deployment of a NextJS microservice in order to improve tooling and reduce time to compile and deploy local changes for engineers
- Designed codemod scripts utilizing the jscodeshift library that parses the AST node structures in each file to remove deprecated API toolkit dependencies and ensure imports and declarations migrate over smoothly

### ServiceNow

Jun. 2021 – Sep. 2021

*Software Engineer Intern, Applications Team*

*Santa Clara, CA*

- Implemented a logging utility function for the backend MID server to display essential 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

### UCSB Rocket Propulsion Laboratory

Jan. 2021 – Sep. 2021

*Software Developer, Avionics Team*

*Santa Barbara, CA*

- 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)

### UCSB Marine Science Institute

Nov. 2020 – Jun. 2021

*Undergraduate Researcher, Washburn Lab*

*Santa Barbara, CA*

- Developed a web application by utilizing NodeJS to display ocean surface current vectors along the California coastlines
- 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

## 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

## SKILLS & INTERESTS

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

**TECHNOLOGIES:** React, Node.js, Redux, Unix Environment, GitHub

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