

David Chou

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EDUCATION

09.2019 – 06.2022	University of California, Davis <i>Bachelors of Science: Electrical Engineering</i> <ul style="list-style-type: none">Garibaldi STEM/Arts Award	Davis, CA
12.2021 – 03.2022	University of California, Berkeley Extension Certificate in <i>Full Stack Web Development</i>	Berkeley, CA

TECHNICAL SKILLS

- HTML5, CSS, JavaScript, jQuery, JSON, OOP
- MySQL, Express.js, MongoDB
- Bootstrap, NodeJS, React, Handlebars, PWA
- Heroku, REST APIs, DevTools

PROJECTS

Neighborgood! · Back End Lead Developer 02.2022
<https://github.com/LaurenDarrimon/community-share> | <https://hidden-forest-09542.herokuapp.com/>

Tools: Node.js, Express.js, MySQL, Sequelize, Handlebars.js, Bootstrap

- Build a full stack application allowing users to login to post their items that are no longer needed, and people within the community could sign up, comment on various items, and claim them.
- Incorporated MySQL to store user data and to create models and relationships.
- Used Handlebars for the templating engine and Bootstrap for the frontend framework.

Astronomy Dashboard · Front End Developer 01.2022
<https://github.com/DazedChou/Astronomy-Dashboard> | <https://dazedchou.github.io/Astronomy-Dashboard/>

Tools: TailWindCSS, HTML, Moment.js, OpenWeather API

- Developed a dashboard with a focus on astronomy that able to display the user's current weather, visibility conditions, and current moon phase.
- Implemented the use of server side API calls to retrieve weather information and the latest astronomy news.
- Conducted code reviews with other developers.

Senior Design Project (Autonomous Car) · PCB Design and Software Developer 10.2020-04.2021

- Designed a custom PCB on Altium to control the driving functions of the car with motors, servos and microcontrollers.
- Coded in OpenMV IDE using Python to integrate a line detection control system to allow the car to autonomously navigate a track
- Engineer for my senior design project where I designed and built an autonomous car in a team of 4. We designed a custom printed circuit board in Altium that controlled the driving functions of the car with servos, motors, and microcontrollers. We also coded in OpenMV IDE using Python to integrate a line detection control system to allow the car to navigate a track autonomously. And throughout this project, I was able to read and understand datasheets for electronic components.

WORK EXPERIENCE

Advance Design Consultants, INC - Electrical Engineer - San Jose, CA 07.2021 - 12.2021

- Assisted with the preparation of design drawings by performing Title 24 calculations, panel schedules, load calculations, lighting and power plan design and layouts, and single line diagrams.
- Assisted project managers by organizing details of construction drawings.
- Conduct quality control checks of construction documents with project managers.