

David Dao

949-445-2278 | davidvd@uci.edu | [linkedin.com/in/david-v-dao](https://www.linkedin.com/in/david-v-dao) | github.com/david-dao28 | Aliso Viejo, CA

EDUCATION

University of California, Irvine

Irvine, CA

Bachelor of Science in Computer Science

Sep. 2020 – Dec. 2023

- GPA: 3.96
- Relevant Coursework: HCI, User Interface Software, Relational Databases and Web Applications, Non-Relational Databases, Information Retrieval, Programming in Python and Java, ML & Data Mining

EXPERIENCE

Software Engineer Intern

June – Sep. 2022, June – Sep. 2023

Johns Hopkins Applied Physics Laboratory

Laurel, MD

- Delivered Angular-based front-end features for a web application under tight deadlines by swiftly translating requirements and undergoing the Software Development Life Cycle.
- Transformed a PostgreSQL database schema to enhance the visibility of the system's status, employing proper techniques for concurrency and maintaining data consistency.
- Expedited an analyst's workflow for annotating documents by implementing a text similarity algorithm (cosine similarity) that groups/collapses near-duplicate documents together.
- Contributed to a web framework using JS/HTML/CSS that helps AI projects select tools specific to its needs and are deemed responsible by a set of ethical principles laid out by the Department of Defense.

PROJECTS

ZotWee | *Google Directions API, BeautifulSoup, HTML/CSS/JavaScript*

Nov. 2023

- Mentored a team over a 12-hour hackathon to create a web application that navigates UCI students to the nearest gender-neutral and ADA-compliant restrooms on campus.
- Placed 1st out of 20 teams in ZotHacks, UCI's annual, beginner-friendly hackathon.

ZotGainz | *Twilio API, BestTime API, React Native, Firebase, Figma*

Feb. 2023 - Present

- Creating a mobile application that serves as a gym utility tool for UC Irvine students.
- Won First Place for "Best Use of Twilio API" at Hack UCI, Orange County's largest collegiate hackathon.
- Using React Native and Twilio's SMS API to build the mobile user interface and push text messages to users upon making a reservation.
- Measured the gym's expected "busyness" throughout the week by using foot traffic data retrieved with the BestTime API.
- Collaborating with campus clubs to iteratively enhance the app's features with a community-centric approach.

ZotBins | *React Native, Firebase, Express.js, Node.js*

Oct. 2021 - Present

- Creating a mobile application using React Native that spreads awareness on sustainability and zero-waste practices at UCI.
- Independently created a RESTful API connected to our NoSQL database, Firebase Firestore, using Node.js and Express.js.
- Leading weekly team meetings to delegate tasks and foster creative ideation for app's features.
- Pitched our project to a panel of judges to win \$1000 in the UCI Sustainability Challenge.

Spotflix | *Spotify Web API, Java, Javascript, HTML/CSS, MySQL*

Apr. 2023 – June 2023

- Co-developed with a partner a full-stack web application that enables Spotify users to browse and filter through their top songs, artists, and genres.
- Utilized the Microservices architecture on AWS, leveraging Java servlets and JDBC to establish connectivity with a MySQL data source.
- Increased scalability and security through the implementation of reCAPTCHA, cookies, connection pooling, and load balancing using master-slave instances.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL (MySQL, Postgres), Javascript, Typescript, HTML/CSS

Frameworks/Libraries: React/React Native, Angular, Node.js, Express, JUnit, pandas, NumPy, scikit-learn

Developer Tools: Git, GitLab, Docker, Google Cloud Platform, AWS, Android Studio, IntelliJ, Jira, Figma, Jupyter Notebook