

# Dylan Vu

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## EDUCATION

**University of California, Irvine (UCI)**

**Expected Graduation: June 2024**

Computer Science (B.S.) - Systems and Software

GPA: 3.87

**Coursework:** Data Structures & Algorithms, Object-Oriented Programming & Design, Programming Languages

## TOOLS & FRAMEWORKS

- **Programming:** TypeScript, JavaScript, Node.js, Python, Git, HTML, CSS, C++, C, Flutter, Ruby, Java
- **Frameworks & Libraries:** React.js, Express, Socket.io, MongoDB, Firebase, JWT, Next.js, Selenium, Docker
- **Hackathon Winner:** LAHacks 2020, HackHarvard 2020, SBHacks VII, UCI WebJam 2022 & WebJam 2023

## WORK EXPERIENCE

**Software Engineering Intern, One Medical (Amazon), Remote**

**June 2023 - August 2023**

- Achieved 21% reduction in total unit test runtime, a cost-saving of ~\$222k/year or 3086 engineering hours
- Resolved over 500 linting issues in Ruby on Rails, enhancing code quality of the 10,000 file codebase
- Explored a codebase health dashboard proof-of-concept by integrating the Rollbar API to fetch, filter, and display error counts within the past year using a Ruby script
- Wrote hackathon proposal to integrate 3rd party inventory system for vaccine stock, helped design the proposed pipeline, and parsed the data from the 3rd party app into a new database model

**Software Developer Intern, Ansync Labs, El Dorado Hills, CA**

**December 2021 - September 2022**

- Developed TypeScript serverless cloud functions on Google Cloud Platform with 100% unit test coverage for user authentication and verification to be applied across company's entire suite of products
- Designed a TypeScript Node app to run Flutter-ESP32 integration tests and ESP32 firmware stress testing, identifying 8 critical over-the-air update firmware bugs that would have bricked whole line of IoT devices
- Resolved week-long blockage in million-dollar preventative health project by debugging and updating bash & Node.js scripts for device setup and quality assurance testing
- Utilized Docker for CI/CD GitLab runners for automated unit testing, integration testing, and version deployment for all 8 company IoT products, streamlining device testing process and ensuring firmware code consistency
- Implemented Flutter web app with BLoC architecture to display dozens of IoT hand sanitizer station usage statistics to market company's newest IoT device to potential customers

## PROJECTS

**Job Postings Bot (UCSB American Institute of Chem. Engineers)**

**December 2021 - February 2022**

- Implemented a TypeScript Discord bot to scrape and post 200+ entry level jobs and internships per week
- Architected MongoDB schema and CRUD functions for scalable architecture, allowing non-programmers to add job keywords for any job role and experience level on LinkedIn
- Employed Cheerio.js and node-cron to scrape Gmail inbox daily for new jobs based on LinkedIn job alerts

**Clothing Inventory Management App (HackHarvard 2021 Hackathon Winner)**

**October 2021**

- Engineered backend using MongoDB, Express.js, Socket.io, and Twilio API
- Programmed API routes for a custom-designed passwordless account login and authentication workflow using JSON Web Tokens (JWT) and Twilio Email API
- Created CRUD functions for global inventory across multi-retailer & brand in a many-to-many relationship