

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

Hackathon Winner: LAHacks 2020, HackHarvard 2020, SBHacks VII, UCI WebJam 2022, UCI WebJam 2023

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

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 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