Dylan Vu

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EDUCATION

University of California, Irvine (UCI)   June 2024

Computer Science (B.S.) - Systems and Software   GPA: 3.86

Hackathons: 17x Award Winner, LA Hacks 2021 & Yale Hacks 2024 Grand Prizes, 28x Participant

WORK EXPERIENCE

Software Dev Engineer I   Jul 2024 - Present

Amazon Health - One Medical

- Resolve **Ruby Packwerk** circular dependencies to improve monolith modularity and codebase architecture
- Engineer **CircleCI** orbs to automate CI/CD notifications and run ESLint jobs to improve code quality
- Parse **ESLint** output to **SonarQube** generic issues using shell script, adding new code quality metrics
- Upgrade 6 **Ruby on Rails** Configuration options to 7.1 defaults, resolving issues from the upgrade

Software Engineering Intern   Jun 2023 - Aug 2023

Amazon Health - One Medical

- Achieved **21% reduction** in total **unit test runtime**, saving **~$222k/year** or **3086** engineering hours by reducing **Ruby Rspec FactoryBot** calls, sharing objects during tests, and optimizing test object creation
- Prototyped codebase health CLI **dashboard** displaying categorized **Rollbar API** error counts for the past year to enable managers and other engineers to quickly assess the general health of EHR codebase

Software Developer   Dec 2021 - Sep 2022

Ansync Labs

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

PROJECTS

Job Postings Bot | *TypeScript, Express, MongoDB, Cheerio.js, Discord.js*   Dec 2021 - Feb 2022

- Deployed **TypeScript** Discord bot with **Discord.js** to post **200+ jobs** & internships weekly for a **200 member** student club, addressing a survey-reported issue where < 50% of graduates found jobs in a year
- Employed **Cheerio.js** and **node-cron** to scrape daily LinkedIn email alerts using **Gmail API** to creatively **overcome technical challenges** related to **data acquisition** and enable non-programmers to add keywords
- Architected **NoSQL MongoDB schema** and **scalable architecture** to save any job title and experience level

SKILLS

Languages: TypeScript, JavaScript, Node.js, Python, SQL, HTML, CSS, C++, C, Dart, Ruby, Java

Frameworks & Tools: React, Express, WebSockets, MongoDB, Firebase, Flutter, Next.js, Selenium, Docker, Git