

Dylan Vu

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EDUCATION

University of California, Irvine (UCI)
Computer Science (B.S.) - Systems and Software

June 2024
GPA: 3.86

WORK EXPERIENCE

Software Dev Engineer I Jul 2024 - Present
Amazon Health - One Medical

- Improve monolith **modularity** and **architecture** by resolving circular **Ruby** package dependencies, pruning unused code, and restructuring modules & controllers to improve boundary enforcement
- Program **custom React hooks** to create **Sentry** observability alerts and perform **GraphQL authentication**
- Implement **GraphQL gateway** with **Apollo Federation** to break apart EHR monolith into **microservices**

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 I 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

PROJECTS

Food Dating App | TypeScript, MongoDB, GraphQL, WebSockets Dec 2024 - Present

- Lead team of 7 backend developers to develop **RESTful** and **GraphQL** endpoints in a modular **microservice**-based architecture, balancing complexity with maintainability, scalability, and availability
- Design and optimize **database schemas** for **NoSQL MongoDB** for user profiles, restaurant information, and matching algorithm to ensure scalability, extendibility, and adaptability for future feature enhancements
- Collaborate with frontend, product, and design teams in a cross-functional environment to translate **product requirements and specifications** into **technical features** and plan project milestones and tasks
- Lead architectural discussions and make driving decisions on technical direction

SKILLS

Languages: TypeScript, JavaScript, Node.js, Python, SQL, HTML, CSS, C++, C, Dart, Ruby, Java, GraphQL
Frameworks & Tools: React, Express, WebSockets, MongoDB, Firebase, Next.js, Selenium, Docker, Git