

Dylan Vu

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EDUCATION

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

June 2024
GPA: 3.86

EXPERIENCE

Amazon (One Medical)

Software Dev Engineer I Jul 2024 - Present

- Drive a strategic initiative to decompose the EHR monolith into **microservices** by building a GraphQL AWS API Gateway with Apollo Federation to decouple **2 key** GraphQL microservices
- Delve into complex 3rd-party library integrations to implement Ruby Apollo Federation to EHR's GraphQL services, successfully resolving challenging bugs and establishing **ownership** over legacy code changes
- Capture **9,000+** events weekly in Sentry with React hooks, leading to a broader observability campaign
- Improve monolith modularity and architectural boundaries by resolving complex circular dependencies across **10+ Ruby** packages, pruning dead code, and restructuring core modules and controllers

Software Engineering Intern Jun 2023 - Aug 2023

- Reduced total unit test runtime by **21%**, saving **~\$222k/year** or **3086** engineering hours by reducing Ruby Rspec FactoryBot calls, sharing objects during tests, and optimizing test object creation

Async Labs

Software Developer I Dec 2021 - Sep 2022

- Engineered 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
- Prevented potential failure of an **entire IoT product line** by designing and implementing a TypeScript microservice for Flutter-ESP32 integration/stress testing that identified 8 critical OTA firmware bugs
- Restored manufacturing progress for a **\$1M+** preventative health device to overcome a **week-long production halt** by diagnosing & repairing errors in bash & JavaScript Node.js setup and QA scripts
- Utilized Docker for CI/CD GitLab runners for automated unit testing, integration testing, and version deployment for all company products, streamlining device testing and ensuring code consistency

PROJECTS

Food Dating App | TypeScript, MongoDB, GraphQL, WebSockets Dec 2024 - May 2025

- Led team of 7 backend developers to develop RESTful and GraphQL API endpoints in a modular microservice-based API architecture, balancing complexity with maintainability, scalability, and availability
- Designed and optimized database schemas for NoSQL MongoDB for profiles, restaurant information, and matching algorithm to ensure scalability, extendibility, and adaptability for future feature enhancements
- Collaborated 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
- Led 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