

# Jared Velasquez

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## EDUCATION

### University of California, Los Angeles

Master of Science in Computer Science

Expected June 2026

Bachelor of Science in Computer Science and Engineering, Cum Laude

June 2025

- **Cumulative GPA:** 3.89
- **Organizations:** Association for Computing Machinery, Upsilon Pi Epsilon, Pilipinos in Engineering and Science

## TECHNICAL SKILLS

- **Languages and Frameworks:** Java, C++, Python, JavaScript, TypeScript, Angular, React, Next.js, Node.js, Express.js, Spring Boot, Hibernate.
- **Concepts:** Databases, Networking, Cloud Computing, REST APIs, CI/CD, DevOps, SaaS, Microservices.
- **Services:** MongoDB, NoSQL, SQL, MySQL, AWS, Azure, GCP, Microsoft Office.

## EXPERIENCE

### AEG Worldwide

February 2025 to Present

#### Application Developer Intern

- Modernized legacy financial data platform by designing cloud-native, event-driven Azure enterprise architecture using CQRS, Durable Functions, Cosmos DB, and Dataverse.
- **Optimized read latency by 82.4% and write latency by 282.9%** through strategic Redis caching and architectural improvements.
- Developed scalable backend services using Durable Functions in TypeScript. Deployed infrastructure using Bicep templates and automated CI/CD pipelines in Azure DevOps.
- Built cross-platform client application with .NET MAUI and MVVM design pattern.

### UCLA Sensing & Robotics for Infrastructure (SRI) Lab

January 2024 to January 2025

#### Undergraduate Research Assistant

- Extend Graph SLAM Simulator in Python to generate novel 3D range-aided SLAM measurements. Ensure correct functionality of the codebase with **60+ unit and integration tests**.
- Develop evaluation tooling to streamline testing of RA-SLAM distributed solver against related optimization algorithms and ground-truth.
- Utilize EVO Python package to extract ground-truth and estimated trajectory for visualization and statistics.
- Implement data pipeline to **synthesize 110+ measurements** for testing and publication.

### UCLA eHealth Research Lab

July 2023 to January 2024

#### Full-Stack Developer

- Developed **15+ React front-end web UI/UX components**. Initiated transition to responsive application design with CSS media queries and Bootstrap.
- Implemented product specifications and interface design with 10+ product designers and marketers.
- Led migration of database querying to Google Cloud for secure authentication and back-end input sanitization.
- Deployed **20+ Google Cloud Run functions** for 300+ real-time conversations and 350 users.

## PROJECTS

### Liwanag

October 2024 to Present

- Architected **scalable, event-driven, microservices-based** language learning platform using AWS.
- Developed backend services in Java Spring and FastAPI, integrating Redis and PostgreSQL, and leveraging containerized microservices for personalized learning, gamification, and progress tracking.
- Integrated **machine learning models into production-grade microservices**, enabling dynamic question generation and response evaluation while ensuring low-latency performance.

### Edify

July 2023 to September 2023

- Engineered and deployed a full-stack Angular-based learning management system (LMS).
- Developed **40+ REST API endpoints** managing LMS data with Java Spring and Spring Security Chain.
- Deployed back-end API and MySQL database with Docker, Azure Kubernetes Service, and Azure Database for MySQL. Built CI/CD DevOps pipeline for automated testing and deployment.