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
- **Activities:** Cloud Consultant for ACM, Project Lead for 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:** AWS (Lambda, EventBridge, DynamoDB), Microsoft Azure (Functions, Service Bus), GCP.

EXPERIENCE

AEG Worldwide   *February 2025 to Present*
Application Developer Intern
- Modernize legacy financial data platform by designing cloud-native, event-driven Azure enterprise architecture using CQRS pattern, Azure Functions, Cosmos DB, and Dataverse.
- **Optimize average read latency by 82.4%** and **write latency by 282.9%** through strategic Redis caching, message brokers, and architectural improvements.
- Develop scalable backend services using Durable Functions in TypeScript. Deploy infrastructure using Bicep templates and automate CI/CD pipelines in Azure DevOps.
- Build 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
- Extended 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**.
- Developed evaluation tooling to streamline testing of RA-SLAM distributed solver against related optimization algorithms and ground-truth.
- Utilized EVO Python package to extract ground-truth and estimated trajectory for visualization and statistics.
- Implemented 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*
- Architect **scalable, event-driven, microservices-based** language learning platform using AWS.
- Develop backend services in Java Spring and FastAPI, integrating Redis and PostgreSQL, and leveraging containerized microservices for personalized learning, gamification, and progress tracking.

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.