

Alex Titov

858-705-3899 | alextitov203@gmail.com | <https://www.alextitov.com> | US Citizen

EDUCATION

BS, Computer Science and Engineering, University of California, Merced

May 2026

Relevant Courses: Data Structures and Algorithms, AI, Networking, Full-Stack Web, Computer Vision, Software Engineering

WORK EXPERIENCE

Software Engineer Intern | YsoDirty

Jan 2025 – Current

- **Spearheaded end-to-end development** of a full-stack, cross-platform **car wash marketplace app**, connecting customers with service providers through **real-time booking, messaging, and file uploads**.
- Built the **React Native mobile client** with **TypeScript** and **NativeWind**, deployed to **iOS, Android, and Web**, enabling users to select services, set location/time, and manage bookings.
- Designed and implemented two user flows—**clients** can book services, upload car images, and chat in real time; **washers** can view upcoming jobs synced with **Apple/Google Calendar**, verify identity via **Veriff API**, and manage documents securely.
- Engineered a **Go backend** with **PostgreSQL**, **Redis**, and **AWS S3** support, featuring **JWT authentication**, booking logic, scalable API architecture, and chat infrastructure.
- **Containerized and deployed entire system** using **Docker**, **Kubernetes (EKS)**, and **AWS stack** including **ECR, EC2, Route53**, achieving **99.9% uptime** and seamless multi-region deployment.
- Built robust DevOps pipeline with **CI/CD**, **Git-based workflows**, and infrastructure-as-code best practices.
- Designed and optimized secure, high-throughput API endpoints, enabling **real-time communication and data exchange** between clients and washers.

Software Engineer Intern | ZetOrder

June 2024 – Current

- **Led development of an iOS app** in **SwiftUI** to capture and structure **LLM training data** through voice and text input, enabling seamless data ingestion for AI model refinement.
- **Built and maintained backend services in Go**, supporting **real-time AI chat** via **WebSockets**, **JWT-based authentication**, token refresh flows, and **secure large file uploads** to **AWS S3**.
- Designed and deployed **MoneyMap**, a full-stack financial advisory platform allowing users to chat with AI advisors after completing onboarding via Typeform; implemented data pipeline from **PostgreSQL** to the AI model, enabling dynamic, context-aware conversations.
- Developed affiliate-facing **Web Dashboard** using **React**, **TypeScript**, **Tailwind**, and **Go**, empowering partners to track referrals and earnings in real time through **RESTful APIs** and secure login sessions.
- Refactored legacy Angular codebase to **React**, resulting in **50% faster load times** and increased frontend maintainability.
- Integrated **Google Cloud Firestore** and **Google Authentication** for secure user access and scalable backend data storage.
- Wrote **unit and integration tests** for both front-end and back-end using **Go test frameworks** and React testing tools, integrated into **CI/CD pipelines** for automated QA.
- **Dockerized and deployed** all services to cloud infrastructure using **Git**, **Makefile scripts**, **Agile practices**, and modern DevOps.

Software Engineer Intern | University of California, Merced

Aug 2023 – May 2025

- **Built and deployed MobileID**, a student-facing PHP application enabling over **9,000+ students** to access dining halls and events via a secure dynamic barcode system, **reducing entry fraud by 95%** by implementing real-time validation.
- **Developed Alynx**, an AI-powered chatbot for UC Merced using **React**, **Tailwind**, **Next.js**, **Node.js**, and **OpenAI's API**, featuring **multilingual vector search**, **text-to-speech**, and **voice recognition** for accessibility. Aggregates data using **web scraping** and **vector databases** (Pinecone/Weaviate), delivering real-time answers based on current events and university web content.
- **Dockerized and deployed** full-stack applications using **Kubernetes** for scalable, fault-tolerant production environments across services like Alynx and MobileID, ensuring **99.9% backend uptime**.
- Created **DCID**, a digital campus ID system with **Apple Wallet** and **Google Wallet** integration, increasing mobile adoption and convenience for campus verification workflows.
- Designed and implemented **facial recognition-based check-in** system for high-security university exams and events using **Python**, **OpenCV**, and **deep learning**, interfacing with **OracleDB**, **MySQL**, and **PostgreSQL** to validate student identities.
- Integrated **Google Maps SDK** for real-time wayfinding and accessibility features in the mobile client, enhancing user navigation across campus.

SKILLS

Languages: JavaScript, TypeScript, Python, Go, Swift, Java, PHP, C/C++, SQL

Frameworks: React, React Native, Next.js, Node.js, Express, Tailwind, Docker, Kubernetes, WebSockets, REST APIs, CI/CD, Git

Cloud: AWS (EC2, S3, ECR), GCP (Firestore, Cloud Functions), PostgreSQL, MySQL, Redis, OracleDB, OpenAI API, TensorFlow