

Aldo Herrera

Software Engineer | Full-Stack Development

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Full-stack software engineer specializing in mobile (React Native), backend APIs (Flask), and AI integration. Recently architected and shipped a contractor field-services mobile app with biometric authentication, GPS-verified workflows, and AI-assisted photo analysis as part of a four-person team, including setting up the shared Postgres infrastructure and managing the deployment pipeline. Comfortable owning end-to-end delivery from schema design through mobile UI to production, with a client-focused mindset carried over from a hospitality background.

Skills

Languages: JavaScript (ES6+), TypeScript, Python, SQL (MySQL), HTML5, CSS3

Frameworks/Libraries: React, Next.js, Flask, Node.js, Express.js, Tailwind CSS, Bootstrap, SQLAlchemy

Databases: MySQL, PostgreSQL, SQLite, Firebase Firestore

Tools/DevOps: Git, GitHub, Docker, Vercel, VS Code, Postman, REST APIs, npm, pnpm

Mobile: EAS Build, expo-local-authentication, expo-location, expo-image-picker, expo-speech-recognition, AsyncStorage, SQLite offline outbox

AI and APIs: Gemini 2.5 Flash, Anthropic Claude (fallback), provider-agnostic AI client design

Certifications: [Coding Temple - Full Stack Software Engineer](#)

Projects

Field Force Contractor | Cross-Platform Mobile App for Oil Services

React Native, Expo, TypeScript, Flask, Python, Supabase Postgres, Gemini 2.5 Flash, Render, EAS Build

- Architected and shipped a contractor mobile app covering ticket assignment, GPS-verified task start, offline photo capture with AI analysis, biometric authentication, and PDF inspection-report export against a real oil-services workflow.
- Owned team infrastructure: set up the shared Supabase Postgres database for the team, configured Render auto-deploy from a personal fork, and managed the multi-contributor fork-based Git workflow.
- Built an offline-first photo upload pipeline using a SQLite outbox with idempotent retry via submission UUIDs and content hashing, ensuring no data loss in low-connectivity field conditions.
- Implemented AI features with Gemini 2.5 Flash and Anthropic Claude as fallback: a chat assistant with rotating OSHA-citation prompt templates, photo analysis with severity scoring and HIGH-severity auto-flagging, voice-dictated inspection report generation, and incident reporting with PDF export.
- Containerized backend services using Docker and managed version control with Git/GitHub for collaborative development.

Experience

Waiter: *Grand Hyatt Deer Valley* | Park City, UT

NOV 2025 - PRESENT

- Streamlined order processing workflows, contributing to reduced ticket times and improved service efficiency during peak operations.
- Managed high-value transactions and multi-course dining experiences requiring accuracy, attention to detail, and problem resolution under pressure.

Software Engineer Apprenticeship: *Coding Temple* | Remote

JAN 2025 - PRESENT

- Developed and deployed full-stack applications using React, TypeScript, Flask, and MySQL, applying modern software engineering principles and RESTful architecture design.
- Built scalable backend APIs and responsive frontend interfaces, completing 5+ production-ready projects under structured sprint deadlines.
- Integrated third-party APIs and authentication systems, demonstrating ability to work with complex distributed systems.
- Collaborated in agile team environments using Git/GitHub for version control and structured code reviews.
- Rapidly adopted new technologies and frameworks, consistently delivering functional applications within accelerated development cycles.

Education

Coding Temple, Certificate - Software Engineering

City College of San Francisco, Business Administration