

# Carlos Aguilera

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## PROFESSIONAL EXPERIENCE

### Lead Software Engineer

June 2025 – Present

*The Inked Network (Nuxt, Supabase, Stripe, SEO, AI Integration, PostgreSQL)*

*Lake Forest, CA*

- Built and shipped a Nuxt 4 (Vue 3 + TypeScript) app as a cross-platform iOS/Android product using Capacitor 8, integrating native device features like camera and geolocation with a mobile-first UX.
- Integrated key platform services (Stripe, Google Maps, OpenAI GPT-4o, ImageKit/S3) to deliver AI-assisted image tagging, location-based discovery, and automated subscription/payment flows.
- Established robust delivery practices by implementing CI/CD, repeatable Supabase seeding for consistent environments, and standardized how the app talks to backend/services (auth, validation, errors).
- Owned the mobile release lifecycle end-to-end: push notifications, deep linking, offline caching, signing/certificates, and navigating App Store / Google Play privacy, policy, and review requirements.

### Full Stack Developer

May 2022 – Present

*Ethika Inc. (Vue.js, Symfony, MongoDB, Bootstrap, AWS, Redis, Docker, GitHub Actions)*

*Lake Forest, CA*

- Boosted site performance by 30% through CloudFront + S3 migration, compression, and AWS Graviton optimization, saving \$3K/month.
- Engineered an AI-powered music CMS supporting 500+ artists and 5,000+ assets, integrating audio stem recognition, intelligent search, and recommendation features, along with a custom player.
- Developed a Shopify-style page builder and integrated Google Tag Manager, streamlining marketing and analytics.
- Cut search costs and latency by 60% by optimizing Algolia and migrating to TypeSense for scalable, reducing the number of queries. The migration to TypeSense saved us close to 75k a year.
- Created inventory management PWA, automating inventory and reporting to improve support efficiency and accuracy. This is integrated directly into our ERP system.
- Launched a promotional web game that pulled 200K+ plays and 20K+ users, driving significant brand engagement.

### Software Engineer

August 2022 – March 2025

*Nexpa LLC (Vue.js, NestJS, MongoDB, Tailwind CSS, AWS, Google Analytics)*

*Lake Forest, CA*

- Built a responsive food truck site with i18n, Square ordering (+15% revenue), automated emails, cron-based menu updates, and reusable UI components.
- Developed and deployed a scalable restaurant platform using NestJS, Square Payments, and REST APIs; implemented CI/CD pipelines, cutting deployment time by 40% and boosting reliability.

## EDUCATION

### California State University, Long Beach

Expected May 2026

*B.S. Computer Science - 3.78 GPA*

*Long Beach, CA*

## PROJECTS

### Web Programmer

July 2023 – July 2024

*Saddleback College Robotics Club (ROS2, Python, Rust, C++, Vue.js, Django)*

*Mission Viejo, CA*

- Developed a Django + ROS2 web GUI enabling real-time rover navigation, science platform control, and telemetry monitoring. Implemented bi-weekly Scrum sprints, delivering functional features and tests on schedule.
- Integrated live camera feeds and rover feedback into a responsive Vue.js frontend for the base station.
- Contributed to the team's advancement to the University Rover Challenge finals, ranking three places higher.

## SKILLS & TECHNOLOGY

- **Programming Languages:** JavaScript, TypeScript, PHP, C++, Java, Python, Rust, SQL
- **Technologies:** Vue.js, Nuxt, React, Bootstrap, Tailwind CSS, Symfony, Django, NestJS, Node.js, Stripe, Capacitor
- **Databases & Auth:** MongoDB, PostgreSQL, Redis, Supabase, JWT, OAuth2
- **DevOps & Tools:** AWS, Vercel, Cloudflare, Docker, Git, Linux, Jira, Nginx, App Store Connect, Google Play Console
- **Core Skills:** Agile development, OOP, problem-solving, collaboration, adaptability, analytical thinking