

Carlos Aguilera

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EDUCATION

California State University, Long Beach

B.S. Computer Science - 3.78 GPA

Expected May 2026

Long Beach, CA

EXPERIENCE

Lead Software Engineer / Owner

June 2025 – Present

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

Lake Forest, CA

- Built and deployed a full-stack Nuxt + Supabase platform connecting 300+ tattoo artists with clients through real-time chat, profile systems, and subscription-based access.
- Integrated Stripe, Google Maps API, OpenAI GPT-4o, and ImageKit/S3, enabling AI-powered image tagging, geolocation-based event listings, and automated subscription workflows.
- Owned the project end-to-end from system design, CI/CD setup, and API integrations to responsive UI/UX, ensuring a polished, production-ready product.
- Developed and published iOS and Android builds using Capacitor, implementing push notifications, offline caching, and deep linking while bridging native APIs for camera access.

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 a returns and inventory PWA, automating logistics and reporting to improve support efficiency and accuracy. This is integrated directly into our ERP system (Business Central).
- 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.

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.

TECHNICAL SKILLS

- **Programming Languages:** JavaScript, TypeScript, PHP, C++, Java, Python, Rust, SQL
- **Stack:** 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, Railway, Git, Linux, Jira, Nginx
- **Core Skills:** Agile development, problem-solving, collaboration, adaptability, analytical thinking