

Hector Leal

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EDUCATION

School

Bachelor of Science in Software Engineering

Monterrey, N.L.

PROFESSIONAL SUMMARY

Results-driven Software Engineering student with 3+ years of full-stack development experience specializing in AI-assisted development workflows and scalable web applications. Delivered production systems achieving 99.9% uptime and driving 40% month-over-month user growth. Accelerated development cycles by 50% through AI-powered development tools including Cursor, V0, Replit, and N8N automation. Proven expertise in React/TypeScript, AI integration, and performance optimization with demonstrated ability to enhance user engagement by up to 35%.

SKILLS

AI-Assisted Development Tools: Cursor IDE, V0 (Vercel), Replit, N8N Automation, Context Engineering, Prompt Engineering | Frontend Development: React, Next.js, JavaScript, TypeScript, Tailwind CSS, Astro, SSR/SSG, Responsive Design, Material UI, ShadenUI, HeroUI | Backend Development: Node.js, Python (FastAPI), REST APIs, JWT Authentication, PostgreSQL, Firebase, Supabase | AI/ML Technologies: LLM Integration, RAG Pipelines, AI Agents, Chatbots, Natural Language Interfaces, Model Inference APIs, Vector Databases, Recommendation Engines | Testing & Quality Assurance: Jest, Vitest, Cypress, Playwright, Puppeteer | DevOps & Cloud: Docker, CI/CD, GitHub Actions, GitLab CI, AWS, GCP, Azure, Vercel, Render, Railway, Serverless Architecture, Microservices | State Management & Performance: React Query, Zustand, Zod, Nx Monorepos, Redis Caching, Performance Optimization, Monitoring & Logging | Languages: Spanish (Native), English (C2 Advanced Proficiency)

WORK EXPERIENCE

Frontend Developer

May 2024 - Jan 2025

Mydilsa LG

Monterrey, NL

Architected and deployed responsive website redesign for industrial manufacturing firm using Astro framework and Tailwind CSS, resulting in 30% increase in client engagement metrics | Optimized site performance through code splitting and image optimization techniques, improving page load speeds by 45% and reducing bounce rate by 25% | Enhanced user experience design and conversion funnel optimization using AI-assisted development tools (Cursor, V0) for rapid prototyping and component generation | Collaborated with cross-functional teams to implement mobile-first design principles and accessibility standards, ensuring WCAG 2.1 compliance across all pages

PROJECTS

ResumeRoast - AI-Powered Resume Review Platform

Engineered full-stack web application leveraging AI-driven resume analysis and personalized feedback system for job seekers. Implemented secure user authentication, multi-format file upload functionality, and real-time AI feedback processing using context engineering techniques. Scaled platform to 100+ active users with sustained 40% monthly growth rate through community-driven features and comprehensive interview preparation tools. Utilized Cursor IDE and AI-assisted development for rapid feature deployment.

SnapLink - URL Optimization Tool

Developed high-performance URL management and link analysis tool with advanced caching mechanisms and database optimization. Achieved 60% latency reduction through Redis implementation and query optimization. Built comprehensive analytics dashboard with real-time metrics and bulk URL processing capabilities handling 500+ concurrent requests. Leveraged N8N for automated workflow management and data processing pipelines.

Mydilsa LG - Mobile-Compatible Website

Delivered responsive, mobile-first platform emphasizing user engagement and accessibility compliance. Implemented Progressive Web App (PWA) features and optimized asset loading, achieving 35% improvement in user engagement metrics and 50% faster loading times across mobile devices. Utilized V0 for rapid UI component generation and Cursor for AI-assisted code optimization.

AeroPredict - Flight Delay Prediction Platform

Built end-to-end flight delay prediction system combining Python machine learning algorithms with React frontend. Deployed ML model achieving 85% prediction accuracy, processing 1,000+ daily flight queries. Designed RESTful API architecture for real-time data processing and intuitive dashboard for prediction visualization and historical analysis. Enhanced development workflow using Replit for collaborative coding and rapid prototyping.