Adrian Madrid

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SUMMARY

Senior Software Engineer with 12+ years of experience building high-performance web apps using Next.js, React, and Node.js. Proven expertise in AI/ML integration, scalable architecture, and cloud-native development. Strong track record of delivering modern, reliable, and user-focused solutions.

SKILLS

Next.js, React, TypeScript, Node.js, AI/ML (OpenAI API, TensorFlow.js), PostgreSQL, Docker, AWS, GraphQL, Tailwind CSS, GitHub Actions, Playwright, Agile

EXPERIENCE

Ledgent Technology — Senior Software Engineer

Hollywood, FL | Mar 2020 – Apr 2025

- Architected and delivered scalable, high-performance web applications leveraging **Next.js** with advanced server-side rendering (SSR), incremental static regeneration (ISR), and dynamic routing, improving page load speed by **30%** and boosting user engagement by **20%**.
- Led the integration of real-time data pipelines using **WebSocket** and **MQTT** protocols, enabling live device monitoring across BLE networks with near-zero latency.
- Spearheaded AI-powered predictive analytics for device fault detection, utilizing **TensorFlow.js** and custom AI APIs to reduce downtime by **15%**.
- Established robust DevOps pipelines with **GitHub Actions** and **Azure Pipelines**, automating CI/CD workflows, reducing deployment time by **40%**, and ensuring zero-downtime releases on **Vercel** and Azure cloud environments.
- Mentored and coached a team of 5+ developers, enforcing coding standards, reviewing PRs, and driving adoption of best practices including **ESLint**, **Prettier**, **Jest**, and **Playwright** testing frameworks.
- Collaborated closely with product owners and UX designers using **Agile/Scrum** methodologies to iteratively deliver new features, improving client satisfaction scores.

Amazon — Senior Software Engineer

Seattle, WA | Aug 2017 – Feb 2020

- Developed critical components of Amazon's flagship e-commerce UI with **React.js** and **Redux**, implementing complex state management with **Redux Thunk** and **Saga**, resulting in **25% faster** page responsiveness.
- Designed and implemented secure, scalable **Node.js** backend microservices integrating **Stripe** payment gateways and **JWT**-based authentication with Role-Based Access Control (RBAC) to enhance security and compliance.

- Led performance tuning of **PostgreSQL** databases, optimizing queries and indexing strategies that improved transaction processing speed by **20%**.
- Owned end-to-end feature delivery, including comprehensive unit, integration, and end-to-end testing with **Jest**, **Enzyme**, and **Postman**, significantly reducing post-release defects.
- Automated build and deployment processes using **AWS CodePipeline**, **ECS**, and **ECR**, supporting a high-velocity continuous delivery model.

Avco Consulting — Full Stack Engineer

Houston, TX | May 2015 – Jul 2017
- Led development of HIPAA-compliant healthcare applications using **PHP Laravel** and **MySQL**, ensuring strict data security and privacy standards for patient information.
- Collaborated with cross-functional teams including clinicians, designers, and QA to design intuitive scheduling and telemedicine features that increased user adoption by **18%**.
- Drove agile transformation initiatives within the development team, introducing Kanban boards and daily stand-ups to enhance communication and accelerate delivery cycles.\
- Provided mentorship and technical guidance to junior engineers, establishing a culture of continuous learning and code quality.

Mobile Programming LLC — Full Stack Developer

New York, NY | May 2013 – Apr 2015
- Developed a responsive, user-centric hotel booking platform with **HTML5**, **CSS3**, and **jQuery**, integrating Google Maps API for enhanced geolocation functionality.
- Engineered backend services with **PHP Laravel**, leveraging **Ratchet WebSockets** for real-time updates and notifications, improving customer engagement metrics by **22%**.
- Optimized **PostgreSQL** databases using table partitioning and Redis caching, accelerating critical queries by over **40%**, ensuring smooth scaling under peak loads.
- Designed and implemented automated testing suites with **PHPUnit** and conducted rigorous performance testing using **Apache JMeter**, significantly increasing system reliability.

EDUCATION

Parker University, Dallas, TX • Bachelor's degree   *(04/2011) - (04/2013)*
Computer Science
South Texas College, McAllen, TX • Associate's degree   *(04/2009) - (03/2011)*
Computer Science

CERTIFICATIONS

AWS Certified Solutions Architect – Associate