DANNY NUNEZ

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Senior Full-Stack Engineer | Scalable Web, Cloud & AI Systems

Senior Full-Stack Engineer with **10+ years of experience** building and modernizing **production web platforms** across **education, fintech, and enterprise environments**. Strong focus on **Next.js**, **cloud infrastructure, API architecture**, and **performance optimization**. Experienced in **untangling legacy systems**, improving **UX at scale**, and integrating **data-driven** and **AI-assisted features** into **real-world products**.

Core Competencies

Full-stack application architecture, scalable frontend systems, **API design and integration**, cloud-native development, **performance optimization**, **AI-assisted search and retrieval** (vector search, semantic indexing), **legacy system modernization**, data-driven UX improvements, **dashboard and analytics engineering**, **cross-functional collaboration**, technical leadership and mentorship, **end-to-end project ownership**, and **production reliability engineering**.

Technical Skills

TypeScript**,** Python, Next.js, React, Three.js, JavaScript, HTML, CSS/SCSS, Tailwind; Node.js, Express, REST APIs, GraphQL, PHP; AWS (Lambda, S3), Docker, Cloudflare, CI/CD; Algolia, vector search, semantic retrieval, PDF vectorization, analytics pipelines; MongoDB, PostgreSQL, MySQL, Supabase; WordPress (headless & custom), Laravel, Flutter; Figma, Adobe Creative Suite, Git, VS Code, Jira, Monday.com, Miro.

Experience

Web Developer | Bill of Rights Institute | Arlington, VA   *August 2023 – Present*

- **Lead development** and **modernization of a civic education platform** serving **90,000+ educators**.
- **Refactored dashboard APIs** to remove **GraphQL image-fetch bottlenecks** and decoupled media loading.
- Implemented lazy loading and **split APIs into section-based queries**, improving scalability.
- **Reduced dashboard load times by ~75%**, making tools reliable and usable and supporting growth from **~75,000 to 90,000 active users**.
- **Vectorized PDF** resources to enable **AI-powered semantic search**.
- Integrated **Algolia indexing** with **AI logic to resolve failed search queries**.
- Built **AWS Lambda workflows** for custom, on-demand PDF generation.
- Owned deployments, **DNS management**, and **security updates**.

Senior Full-Stack Developer | Negozee, Inc. | Campbell, California   *January 2023 – Present*

- Stabilized and modernized Negozee's **WordPress + BuddyBoss** platform after repeated crashes under user search load and mobile app demand.
- Led the migration from **DigitalOcean to Rapyd Cloud**, a BuddyBoss-optimized hosting environment, improving uptime and overall platform reliability.

- **Optimized database** indexing and refactored **member and username search logic**, eliminating search-related crashes and significantly reducing load times.
- Designed and implemented **custom API endpoints** to support platform features and mobile integration.
- Rebuilt the mobile application using **Expo**, enabling a **single shared codebase for iOS and Android**.
- Helped establish a scalable web and mobile architecture that supported growth from **~10,000 to 40,000 users**.

Full-Stack Developer | Artemis Vision | Baltimore, MD   *February 2020 – July 2023*
- Built and launched the company's **first NFT-based audio sales platform**, including a **royalty payment system** to support ongoing creator revenue.
- Developed a **Unity-based Web3 purchasing experience**, enabling users to buy digital assets directly within a **virtual reality environment**.
- Guided technical partnerships and cross-team collaboration across engineering, design, and business stakeholders.
- Built and maintained full-stack applications supporting cryptocurrency liquidity, NFT sales, and real-time transaction flows.
- Designed and implemented responsive UX/UI experiences across desktop and mobile, including branded visuals and motion elements.
- Deployed applications to AWS and managed Cloudflare configurations for performance and security.
- Mentored new hires and supported debugging and production issues.

Senior Full-Stack Developer | T-Mobile | Baltimore, MD   *October 2014 – April 2023*
- Built and maintained **enterprise-scale web platforms and internal tools** supporting cross-functional teams across the organization.
- Designed and implemented **frontend interfaces and backend services** using PHP, MySQL, JavaScript, and API integrations.
- Partnered with product and business teams to define and track **key performance metrics** including retention, ROI, and lifetime value (LTV).
- Translated business requirements into **data-driven technical solutions** that improved platform usability and operational efficiency.
- Communicated technical insights, tradeoffs, and platform recommendations to **non-technical stakeholders** and leadership.

Web Developer | Tax Terminal | New York, NY   *February 2011 - February 2014*
- Supported and maintained a **PHP-based production platform serving ~10,000 users**, hosted on AWS EC2 with an RDS-backed database.
- Led a **database migration from Amazon RDS to DynamoDB** to reduce infrastructure costs and simplify long-term maintenance.
- Refactored data access patterns to support the transition from relational to NoSQL storage while maintaining application stability.
- Improved system reliability and scalability by aligning the data model with usage patterns and operational requirements.

Web Developer | NY Design Company | New York, NY   *January 2008 - February 2011*
- Managed the software development process, built custom CMS modules, and tested/ debugged web applications.
- Contributed to full-stack platform improvements that supported a **+12% YoY increase in marketing-attributed sales** and improved net margins by **~29% YoY**

Projects

BillofRightsInstitute.org | https://github.com/billofrightsinstitute
- Led a full UI and platform refresh for a national civic education site serving **90,000+ educators**, improving navigation, accessibility, and content discovery.
- Built AI-assisted resource discovery by **vectorizing PDF content** and combining semantic search with Algolia indexing to surface relevant materials when traditional search failed.
- Refactored dashboard APIs and media loading strategies, **reducing load times by ~75%** and improving platform reliability and user engagement.

Tradiantix.com | https://github.com/Danny-Nunez/stock-pulse
- Built a **low-latency stock trading platform** using **Next.js, MySQL, and real-time market data (Polygon.io)**, enabling instant buy/sell execution for favorited stocks.
- Designed and engineered a **custom physical trading dongle** that triggers trades directly from the application; developed end-to-end with a **provisional patent pending**.
- Integrated **AI-driven market analysis** to process live news and price signals, surfacing high-potential stocks and generating automated buy/sell recommendations based on trend analysis.

Beatinbox.com | https://github.com/Danny-Nunez/Music
- Built a **full-stack music platform** with an **Express backend** and **Next.js frontend**, designed to provide an uninterrupted listening experience for developers.
- Developed a **cross-platform mobile app** using **TypeScript and Expo**, enabling a single shared codebase across **iOS and Android**.
- Designed and implemented a **PostgreSQL + Prisma data layer** to manage playlists, sharing, and user data with a clean, scalable schema.

Education

Massachusetts Institute of Technology   *Completed Coursework, February 2023 – July 2023*

MIT XPro - Professional Certificate in Coding

University of California   *Completed Coursework, March 2023 - May 2023*

Google SEO Certificate

Harvard, Google, Meta FrontEnd , Meta Javascript   *Completed Coursework, June 2022 - November 2022*

Certificates in Computer Science, UX Design, Frontend Development

Community College of Baltimore   *Completed Coursework, June 2012 - July 2014*

Degree in Computer Science