

Daniel Hernandez

Senior Full-Stack Software Engineer | AI Integration Specialist

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SKILLS

- **Frontend:** React, Next, Redux, TypeScript,
- **API & Backend Systems:** Node.js, Python, Django, C#, Ruby, Rails, Express, GraphQL
- **Data Platforms:** PostgreSQL, MongoDB, DynamoDB, RDS, SQL/NoSQL, Vector Databases
- **Cloud & DevOps:** AWS (Lambda, CloudWatch, CloudFront, SQS, SNS, S3), Docker, Kubernetes, CI/CD
- **Applied AI & Secure Integration:** LangChain, RAG, Multi-Provider AI, BYOK, AES-256-GCM, Zero-Trust; Whisper, Ollama

EXPERIENCE

BrainGu (DoD work) Senior Software Engineer

June 2024 - January 2026

- Developed and maintained **full-stack applications** for DoD clients using **React, Next.js, Django & Python**
- Developed the company's flagship **secure pipeline platform**, enabling external development teams to run applications with **strict data protection** requirements
- Built **geolocation applications** for asset management and **3D space tracking** using **Cesium & Resium 3D viewer**
- Developed personnel, equipment, and inventory tracking applications for **Space Force, Air Force, & Navy clients**
- Implemented **dynamic web forms, complex data management** features, & integrations with Mattermost/Jira
- Deployed mission-critical apps to **Platform One (P1)** environments, ensuring strict DoD security standards.
- Integrated "Ask Sage" government-secure AI API and helped develop a local secure CLI coding agent for development workflow automation powered by Google's Gemini API

Tailored Technologies Principal Full-Stack Engineer

November 2021 - June 2024

- **Led a team** of devs in the development/delivery of client projects using various web technologies/frameworks
- **Architected and implemented** scalable and maintainable software solutions, following industry best practices
- **Managed project timelines, budgets, and client expectations**, ensuring successful delivery of quality software
- Conducted **code reviews**, provided **technical guidance**, and fostered a culture of **continuous learning** and improvement within the engineering team.
- **Spearheaded** the development and maintenance of a comprehensive suite of **internal tools and libraries** to streamline development processes, improve code quality, and enhance productivity
- Developed and optimized **backend services** using **C# and ASP.NET Core**, integrating with databases & APIs
- Utilized **Python** for **data analysis** and processing tasks, creating scripts to automate financial reporting and risk assessment processes
- Implemented **state management solutions** and **optimized performance** for **React Native** applications, resulting in improved app responsiveness and user satisfaction

Mesirow Financial Senior Full-Stack Engineer

February 2023 - November 2023

- Led **continuous development/modernization** of apps, such as the flagship **Wealth Management portal**
- **Optimized application performance** through code refactoring, resulting in a **30% reduction in load times**
- Developed and maintained web applications using technologies such as **React, Node.js, Express**, and **MongoDB**
- **Maintained and improved** robust **backend services** using **C# and .NET Core**
- Maintained and debugged a legacy **Java-based application** supporting critical business operations, **improving stability** and **resolving long-standing issues** to ensure high availability
- Maintained and enhanced the company's **React Native mobile app** for the wealth management platform

First American Senior Software Engineer

March 2022 - February 2023

- Developed **REST and SOAP-based endpoints** that interacted with **serverless base lambda functions** and traditional CRUD functionality for an enterprise-sized monolithic front-end application.
- Integrated functionality across dozens of **microservices** that relied heavily on **SQS, SNS lambdas**, and CRUD interactions leveraged by **GraphQL middleware**
- Aided and led the **research, architectural design**, and development of a wide range of functionality across an extensive monolithic **React Apollo-based front-end architecture** that spanned everything from document processing to highly

detailed government-regulated user interactions.

- Designed and implemented **C# .NET Core microservices** to support the company's document processing systems, improving overall system reliability and performance
- Developed and maintained **C# libraries** for common business logic, enhancing code reusability across multiple projects

Charter Communications Full-Stack Engineer

February 2020 - March 2022

- Led **Client / API development** of two new major full-stack web products, launching **under budget** and **pre-deadline**.
- Built a **POC application** that generated production-grade code from complex user interactions.
- Analyzed/Developed with **TypeGraphQL, RDS, DynamoDB, NextJs & Keycloak**

Tek Mate Full-Stack Engineer

October 2019 - December 2020

- Designed, Architected, and Developed **ten clients / five APIs** for three applications using a wide range of technologies.
- **Managed a team** of three developers and four designers while initiating /maintaining client relationships.

Brainy Developer Freelance Web Developer

January 2017 - November 2019

- Worked closely with small to medium-sized businesses to develop high-quality **eCommerce/specialized web applications**
- **Refactored legacy codebases** using modernized tech such as React, Node, MongoDB, Express, GraphQL, Apollo, & Docker

OPEN SOURCE PROJECTS

SpecTree - (Next.js 14, TypeScript, Strapi 5, PostgreSQL, OpenAI, Tailwind, Docker)

[GitHub](#)

Multi-provider AI enabling realistic prompt engineering through structured specifications

- Architected multi-provider AI integrating GPT-5, Claude & Gemini with dynamic routing & streaming SSE
- End-to-end platform architecture from database design to AI microservice deployment.
- Built hierarchical work breakdown (App→Epic→Feature→Story→Task) with AI content generation
- Implemented Express microservice with Helmet security, CORS, rate limiting & token tracking
- Designed Markdown/JSON export for AI coding tools (Cursor, Copilot) / Designed token usage tracking for cost attribution

LifeContextCompiler - (React, React Native, Expo, TypeScript, TurboRepo, Zustand, Convex, Tailwind, OpenAI Whisper, Claude, Playwright)

[GitHub](#)

Privacy-first cross-platform app with client-side encryption & Shamir's Secret Sharing for emergency access.

- Architected TurboRepo monorepo: 9 shared packages serving web, mobile & Chrome extension
- Built multi-provider transcription (Whisper, Web Speech API) with real-time confidence scoring
- Implemented client-side AES-256-GCM, PBKDF2 key derivation & Shamir's Secret Sharing

Jarvis Voice Assistant - (Python, OpenAI Whisper, Ollama, Qwen 2.5, Home Assistant)

[GitHub](#)

Fully Local AI Voice Assistant

- Implemented intelligent model routing selecting optimal LLM (7B-72B) based on query complexity
- Built speech pipeline: local Whisper STT, Ollama LLMs & Home Assistant smart home
- Developed 10 modes: wake word detection, continuous conversation & HTTP API server

CodeReview AI - (Next.js 14, Express, PostgreSQL, Redis, BullMQ, AES-256-GCM)

[GitHub](#)

Enterprise AI code review platform with BYOK security and zero code retention

- Designed BYOK architecture with AES-256-GCM encryption ensuring complete data sovereignty
- Built async job queue (BullMQ/Redis) with exponential backoff; zero code retention policy

splice3d - (Python, C++, Arduino, G-code)

[GitHub](#)

3D Print Multi-Color Filament Automation hardware/software system, reducing multi-color 3D print filament waste by 67%.

- Built **G-code post-processor** parsing slicer output to generate splice recipes with precise color transitions
- Designed **Arduino firmware** state machine controlling cutting, heating & splicing mechanism

EDUCATION

Certificate In Web Development - App Academy | Spring 2019 | 1500+ hour curriculum with < 3% acceptance rate

Associate Degree IT-WEB TECHNOLOGY - Lake Land College | 2018- 2019

Full portfolio: brainydeveloper.com | [GitHub](#)