

DANIEL ROMITELLI JR.

SENIOR SOFTWARE ENGINEER • AI PLATFORM ARCHITECT • U.S. NAVY VETERAN

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SUMMARY

Senior software engineer who designed and built the flagship developer product at an NVIDIA- and Google-backed AI platform startup, shipping a 102,000 line desktop IDE from zero as primary author while holding one of two codebase-wide pull request approval seats and reporting to the CTO. Prior tenure as sole architect and engineer of a 400,000 line enterprise recruiting intelligence platform on Azure. Self-taught engineer and U.S. Navy veteran who owns systems end to end, from colocated bare metal and BGP peering through to product surface.

CORE COMPETENCIES

AI/ML & Agents: GPT-5, LangGraph, LangChain, Azure AI Foundry, Azure AI Search (vector/semantic/hybrid), OpenAI Structured Outputs, embeddings (pgvector), multi-agent orchestration, voice AI (STT/TTS), MCP

Desktop & Developer Tooling: Electron, Language Server Protocol, code graph analysis, provenance and attestation systems, sandboxed execution, CLI distribution, code signing and notarization (arm64 macOS)

Cloud & Infrastructure: GCP (Partner Interconnect, Cloud Router), Azure (Container Apps, AI Search, Service Bus, Redis, SignalR, Key Vault, Front Door, App Insights), Docker, Terraform, Kubernetes, OpenTelemetry

Bare Metal & Networking: Colocation deployment, Proxmox, BGP, pfSense, VLAN and Layer 2 circuit provisioning, PowerEdge hardware, unattended provisioning

Programming & Data: Python, TypeScript, JavaScript, SQL, FastAPI, React, Next.js, Node.js, SQLAlchemy, Alembic, PostgreSQL (pgvector)

Architecture: Microservices, event-driven systems, circuit breakers, RBAC with multi-tenant isolation, feature flags, CI/CD

PROFESSIONAL EXPERIENCE

Senior Software Engineer | MarutAI

San Francisco, CA (Remote) • March 2026 – July 2026

NVIDIA- and Google-backed AI platform startup. Built the company's flagship developer product from scratch in four months, reporting to the CTO. 1,085 of 1,142 commits, 262 merged PRs, 570+ test files.

- Designed and built the MAI IDE from zero as primary author: approximately 102,000 lines of vanilla JavaScript on Electron, shipped as a signed arm64 macOS DMG with a CLI installer and four-step onboarding wizard.
- Built local Docker sandbox execution, hosted services CRUD, git integration, and streaming AI chat, with Language Server Protocol integration delivering completions, diagnostics, and cross-file navigation.
- Shipped Setup Doctor environment diagnostics, Managed Changes, runbooks, a multi-provider model picker, and a push-to-talk voice interface chaining speech-to-text, LLM inference, and text-to-speech.
- Architected a unified code, manifest, and deployment lineage graph with a sealed attestation system.
- Implemented role-based access control with cross-organization leak protection and an enterprise document ingestion pipeline with a full lifecycle state machine.
- Integrated platform authentication end to end, led the production auth cutover, and shipped SDK contributions at full test coverage, 150 of 150 passing.
- Led an end-to-end colocation deployment: PowerEdge R740 racked in a Tampa data center with cross-connect and a dedicated Layer 2 circuit provisioned to Google Cloud Partner Interconnect.
- Configured BGP peering between on-premises hardware and GCP Cloud Router, including MTU tuning and route advertisement, built a local pfSense emulator of the GCP Cloud Router for pre-validation, and created a first-boot-hook Proxmox autoinstall USB for unattended bare-metal provisioning.
- As one of two codebase-wide approvers, blocked a plaintext secret crossing the local control socket, a health check wired to the wrong database, and two classes of cross-tenant credential leak, verifying each fix by reverting it to confirm the test failed.

Principal Technology Architect | The Well Recruiting Solutions

Remote • July 2025 – March 2026

Sole architect and engineer of an enterprise recruiting intelligence platform for a financial services recruiting firm. 400K LOC, 444 API endpoints, 69 Azure resources, 855 commits in eight months.

- Provisioned and managed 69 Azure resources across compute, AI, data, messaging, networking, and security, including 12 Container Apps deployed as independently scalable microservices and 3 AI Foundry instances.
- Cut AI inference costs 90% by implementing prompt caching on Azure Cache for Redis.
- Deployed 6 autonomous agents on Azure AI Foundry, including a primary assistant with 76 tools spanning search, email, calendar, Teams, SharePoint, and contacts, plus a 12-class local multi-agent orchestration framework.
- Built a LangGraph email pipeline on GPT-5 structured outputs that creates CRM records from recruitment emails, with forwarded-content extraction, signature removal, and reschedule detection.
- Developed the Vault Intelligence Assistant with natural language query parsing, three-tier search across Azure AI Search, Zoho API, and PostgreSQL, adaptive learning from corrections, and privacy mode anonymization for client-facing calls.
- Built semantic vector search across 5 Azure AI Search indexes with embedding generation workers, pgvector for 400K+ context storage, and NLP intent classification at 70%+ cache hit rates.
- Designed an NLP query engine with entity extraction, intent classification, financial data redaction, streaming responses, and multi-turn conversation memory.
- Architected a proprietary U.S. financial advisor database fusing AdvisorPro, LinkedIn, BrokerCheck, and internal CRM data with cross-source identity resolution by CRD number, LinkedIn URL, and email.
- Built the Well Ops Dashboard, a 40,000 line, 88-component operations platform with an AI ops agent, anomaly detection, D3 visualizations, and real-time SignalR streaming.
- Engineered event-driven architecture on Azure Service Bus with circuit breakers, dead-letter queue handling, and exponential backoff retry, with OpenTelemetry distributed tracing across every microservice.
- Shipped a production Outlook Add-in (Office.js) with source grounding and correction overlays, a Teams Bot with 30+ slash commands and adaptive cards, and MCP servers for Zoho CRM and Zoom.
- Designed the PostgreSQL schema with 73+ Alembic migrations and pgvector, and implemented feature flags plus zero-context-loss session persistence.

CEO & Co-Founder | Cloudelipute LLC

East Aurora, NY • November 2021 – Present

Independent research and product entity for AI systems, applied ML, and cloud architecture.

- Pramaana: crypto conformal prediction trading research on an FT-Transformer CQR ensemble over 36M+ rows of minute-level market data, with an iTransformer hourly model at 54.69% walk-forward validated directional accuracy; targeting ICAIF 2026.
- HBCR: quantitative finance framework for risk and portfolio management, prepared for academic publication.
- NeuroLoq: adaptive learning platform with a cognitive calibration engine, constellation knowledge graph, forgetting curve modeling, knowledge stability scoring, and adaptive curriculum generation, backed by 502 tests.
- Scenematic: AI video generation platform with a scene compiler modeled as a constraint graph, GRPO-normalized rewards, CLIP anchor tracking, and circuit breakers, backed by 285+ tests.
- AutoLensAI: AI car marketplace using Gemini for photo enhancement, auto-generated listings, and multi-platform promotion. Flowlytics: workflow automation analyzing screen recordings for process optimization via computer vision and NLP.
- Crafted by Daniel: developer portfolio and AI demo platform on Next.js with 6 interactive demos spanning research agents, financial dashboards, text-to-3D generation, SAM 2.1 vision, chess AI, and a reasoning lab.

CEO | SteadyStone Construction

East Aurora, NY • July 2023 – July 2024

- Directed residential remodeling, multi-unit builds, custom homes, and large-scale additions, delivered on time and within budget.
- Managed cross-functional teams of designers, engineers, and suppliers, and streamlined project management through SketchUp Pro, Autodesk, and ERP/PowerBI integration.

Safety Manager | Online Auto Connection

Buffalo, NY • April 2021 – February 2022

- Designed a Raspberry Pi telematics system with computer vision for a 36-truck hauler fleet, cutting operational inefficiencies by 50%.
- Built a full-stack fleet monitoring app with real-time diagnostics, route optimization, and predictive maintenance; automated toll reconciliation recovered \$12,000+ in erroneous charges.

Owner | Customs For Kroboth

East Aurora, NY • January 2019 – February 2021

- Designed and built custom furniture, doors, and kitchen cabinetry, modeling in SketchUp Pro and producing on CNC machinery.
- Walked clients through their pieces in photorealistic 3D using Enscape before production, managing relationships end to end and earning repeat business.

Naval Aircrewman Operator (AWO3) | U.S. Navy

VP-40, NAS Whidbey Island, WA, with detachment to Misawa, Japan • September 2011 – October 2015

- Operated P-3C acoustic sensor systems for submarine tracking in high-pressure operational environments; as detachment Leading Petty Officer in Misawa, Japan, led a five-sailor team running command service operations supporting 100+ deployed VP-40 sailors. Navy and Marine Corps Achievement Medal. SERE School graduate. Honorable discharge.

PUBLICATIONS & WRITING

- Author, How to Architect an Enterprise AI System (And Why the Engineer Still Matters), audiobook.
- Technical blog, 50 posts including a 13-part series, craftedbydaniel.com.
- Conformal prediction in crypto markets, targeting ICAIF 2026.

AWARDS & RECOGNITION

- Navy and Marine Corps Achievement Medal, detachment Leading Petty Officer, VP-40 Misawa.
- Global War on Terrorism Service Medal.
- Sea Service Deployment Ribbon.

EDUCATION & CERTIFICATIONS

Associate's in Finance, Canisius University, Buffalo, NY. 20 credits remaining toward a B.S. in Finance, minor in Economics.

Google Data Analytics • Google Cloud Digital Leader • Harvard Data Science • Harvard R Basics • Cloudinary Generative AI • Procore Project Manager