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AI Platform Architect | Enterprise Systems Architect | Technical Program Leader

EXECUTIVE PROFILE

U.S.-based technical founder and former Verizon Senior Tech Manager with 30+ years of experience across enterprise data platforms, AI-enabled software delivery, infrastructure modernization, high-availability systems, technical program leadership, and production software architecture.

I combine current agentic AI platform work with deep enterprise execution history. Through BrainIT Consulting and DreamForge World, I design and ship production SaaS, AI workflows, automation systems, dashboards, multi-tenant platforms, and business-process tools using Claude, GPT, Gemini, Next.js, TypeScript, Vercel, Neon/PostgreSQL, Stripe, Inngest, and modern authentication/payment infrastructure. Before founding BrainIT/DreamForge, I spent 24 years at Verizon, where I architected and led large-scale data and routing platforms, including a 10-server, 164 TB Microsoft SQL Server private-cloud data tier, a least-cost-routing optimization engine that contributed to \$150M+ in operational savings, a U.S. patent, and a zero-downtime modernization from SQL Server/Windows to MySQL on Red Hat Enterprise Linux.

Strong fit for roles in AI platform architecture, agentic software engineering, data systems architecture, technical program management, enterprise modernization, SaaS architecture, automation, solution architecture, and cross-functional leadership.

CORE VALUE PROPOSITION

- Agentic AI and modern SaaS delivery: production use of Claude, GPT, Gemini, AI gateways, structured output, context engineering, evaluation workflows, cost-aware model routing, retry/idempotency patterns, and AI-assisted development using Claude Code and Codex.
- Enterprise-scale systems background: 24 years at Verizon across data platforms, routing optimization, SQL Server, MySQL, Red Hat Enterprise Linux, high availability, disaster recovery, infrastructure modernization, and executive-facing technical leadership.
- Business-to-technology translation: proven ability to translate ambiguous business goals into working systems, architecture plans, migration roadmaps, operational controls, and measurable outcomes.
- Production accountability: experience owning systems through design, build, testing, cutover, incident response, vendor coordination, customer communication, and post-launch tuning.
- Government-ready posture: U.S.-based, experienced in regulated enterprise environments, strong documentation discipline, formal project management background, and eligible to pursue Public Trust or related clearance requirements if needed.

PROFESSIONAL EXPERIENCE

Founder & AI Platform Architect - BrainIT Consulting / DreamForge World

Fort Myers, FL | 2023 - Present

- Architect, build, and operate AI-enabled SaaS products, automation platforms, client workflows, dashboards, and business systems across the BrainIT and DreamForge ecosystem.
- Design and ship production software using TypeScript, Next.js, React, Vercel, Neon/PostgreSQL, Drizzle, Prisma, Better Auth, Stripe, Inngest, Resend, BrightData, Claude, GPT, Gemini, Perplexity, n8n, Jotform, and API/webhook integrations.
- Build agentic and AI-assisted workflows using context engineering, structured output, multi-provider routing, evaluation harnesses, retry semantics, idempotent webhooks, queue/fan-out workflows, and cost-aware model selection.
- Use Claude Code, Codex, and AI-assisted development workflows as force multipliers for refactoring, architecture analysis, documentation, test creation, debugging, migration planning, and production feature delivery.
- Architect multi-tenant SaaS patterns including organization-based authentication, role-based access, customer portals, payment flows, subscription logic, audit trails, transactional email, and database-backed workflow automation.
- Design products with explicit unit economics, including per-vendor cost tracking, usage controls, credit ledgers, budget caps, server-side enforcement, and profitability-first system design.

- Lead customer-facing discovery, technical evaluation, demos, onboarding, documentation, and support for small-business and consulting clients.
- Translate business process problems into practical automation systems that reduce manual work, improve customer experience, and create measurable operational value.

Selected Current and Recent Work

- Lighthouse: Generative Engine Optimization platform that tracks how major AI engines discuss brands and turns results into prioritized content and visibility recommendations. Built with TypeScript, Next.js, Vercel, Neon, Inngest, Stripe, Better Auth, and multi-provider AI routing.
- DreamForge Vets: Multi-tenant veterinary clinic operating system with scheduling, patient/visit records, billing, reminders, inventory, prescriptions, reporting, client portals, AI chat, and SOAP dictation patterns.
- CashDash: Receipt-to-ledger workflow using phone-scanned receipts, vision-based extraction, structured output, and accounting-ready records.
- ValueForge / Athena AI: Consulting, pricing, and client-portal platform with AI-assisted business context, proposal support, Stripe payments, client records, opportunities, and savings verification.
- DreamForge Academy / Writer / CRM / Boards / Software: Learning, writing, CRM, project, and software-delivery platforms demonstrating multi-tenant SaaS, role-based workflows, payments, content systems, dashboards, and AI-assisted productivity.
- Scorpion 3D Chess Engine: TypeScript chess engine and 3D interface with alpha-beta search, iterative deepening, quiescence search, transposition tables, UCI/Stockfish benchmarking, and NNUE-style evaluation concepts.

Senior Tech Manager | SQL Database Architect | Solutions Architect - Verizon

2009 - 2023

- Owned architecture, modernization, and program leadership for Verizon's enterprise least-cost-routing platform across two major technology generations.
- Designed and led implementation of a 10-server Microsoft SQL Server cluster on a 164 TB private-cloud data tier supporting national routing optimization workloads.
- Architected high-availability and disaster-recovery capabilities including heartbeat failover, hot-swap storage arrays, operational controls, backup/recovery planning, and production support patterns.
- Built and evolved the least-cost-routing optimization engine using large-scale SQL Server, T-SQL, data modeling, performance tuning, indexing strategy, operational analytics, and decision-support logic.
- Contributed to \$150M+ in operational savings through routing optimization, platform performance, and data-driven operational decision support.
- Earned a U.S. patent for least-cost-routing design and optimization architecture.
- Led SQL DBA and engineering teams, coordinated vendor partners, and served as the bridge among executives, product/business owners, infrastructure teams, database engineers, application developers, and operational stakeholders.
- Architected and led the multi-year migration of the full least-cost-routing stack from Microsoft SQL Server on Windows to MySQL on Red Hat Enterprise Linux as Verizon retired its internal data center.
- Delivered the migration with zero production downtime, preserving business continuity and operational savings throughout the cutover.
- Owned data-model conversion, T-SQL-to-MySQL translation, application sequencing, HA/failover validation, cutover planning, testing strategy, and post-cutover performance tuning.
- Served simultaneously as technical architect, RHEL system administrator, application lead, Senior Tech Manager, and stakeholder interface between an external consulting firm and internal Verizon teams.

Manager, Database Development, Infrastructure & Server Administration - GTE / Verizon

1999 - 2009

- Led database, infrastructure, server, and enterprise modernization initiatives supporting operational systems.
- Managed teams responsible for SQL development, database administration, server administration, infrastructure operations, and production support.
- Planned and executed database, server, and platform migrations across enterprise environments.
- Supported Microsoft server, SQL Server, systems management, network, and infrastructure modernization efforts.
- Helped transition legacy enterprise environments toward Microsoft-based platforms and reduced ongoing infrastructure cost through standardization and automation.

Systems Analyst / Infrastructure Consultant - Persetel Networks, ComEd, Caltex, Woolworths, and Related Enterprise Clients

1990s

- Designed and supported enterprise network, server, and desktop infrastructure for large organizations.
- Led automated PC rollout and software installation projects, including large-scale hands-free deployment patterns.
- Worked across Banyan VINES, Microsoft networking, Windows Server, SQL Server, SMS Server, and enterprise client/server systems.
- Built early career foundation in automation, infrastructure standardization, data-center operations, and enterprise customer delivery.

SELECTED ACHIEVEMENT HIGHLIGHTS

- \$150M+ operational savings from Verizon least-cost-routing and data optimization work.
- U.S. patent for least-cost-routing design and optimization architecture.
- 164 TB SQL Server production data tier designed and operated from the ground up.
- 10-server high-availability cluster with heartbeat failover and hot-swap storage.
- Zero-downtime migration from SQL Server/Windows to MySQL on Red Hat Enterprise Linux.
- 24 years at Verizon across enterprise systems, architecture, management, and modernization.
- 30+ years total technology experience across enterprise infrastructure, databases, SaaS, AI, automation, and product delivery.
- 50+ software projects and product experiments delivered across BrainIT/DreamForge.
- Anthropic Certified Developer, Claude Code.
- PMP, MCSE, and legacy enterprise networking certifications.

CORE COMPETENCIES

AI / Agentic Engineering: Claude, Claude Code, Codex, GPT, Gemini, Perplexity, OpenAI, Vercel AI Gateway, context engineering, structured output, JSON-mode workflows, evaluation harnesses, retrieval patterns, AI-assisted development, LLM-driven refactoring, multi-provider routing, cost-aware model selection, agentic workflow orchestration, prompt engineering, guardrails, AI automation, vision extraction, AI assistants.

Modern SaaS / Web Architecture: Next.js, React, TypeScript, Node.js, Tailwind CSS, Vercel, Vercel AI Gateway, Vercel Workflow, Neon/PostgreSQL, Drizzle, Prisma, Better Auth, Stripe, Inngest, Resend, BrightData, webhooks, idempotency, multi-tenant systems, role-based access, customer portals, dashboards, subscription billing, API integrations, GitHub Actions, Vitest, MSW, Playwright.

Data Systems & Enterprise Platforms: SQL Server, T-SQL, MySQL, Red Hat Enterprise Linux, PostgreSQL, Oracle, Power BI, data modeling, ETL, data pipelines, indexing strategy, performance tuning, operational analytics, data-tier migration, cross-platform database conversion, HA/DR, backup/recovery, capacity planning, private-cloud data tiers, production operations.

Cloud, Infrastructure & Operations: Vercel, AWS, Azure, Docker, Linux, RHEL, VMware, Windows Server, shell scripting, PowerShell, CI/CD, monitoring, deployment planning, cutover planning, disaster recovery, server administration, storage architecture, network administration, production support.

Leadership, Program, and Customer Delivery: Technical program leadership, solution architecture, executive communication, vendor coordination, stakeholder alignment, team leadership, technical mentorship, roadmap sequencing, dependency management, risk management, migration planning, operational readiness, customer discovery, product demos, client onboarding, technical documentation, business-process automation.

EDUCATION & CERTIFICATIONS

- Bachelor's Degree, Advanced Information Systems and Programming - Nelson Mandela University.
- Anthropic Certified Developer - Claude Code.
- Project Management Professional, PMP.
- Microsoft Certified Systems Engineer, MCSE.
- Certified Banyan VINES Specialist, CBS.
- Jotform Foundations & Apps.
- Healthcare Digitization & Automation.
- AI Agent Building & Business Process Automation.

TOOLS & PLATFORMS

Claude | Claude Code | Codex | OpenAI | GPT | Gemini | Perplexity | Vercel AI Gateway | n8n | Jotform | Next.js | React | TypeScript | Node.js | Tailwind CSS | Vite | Express | Python | SQL | T-SQL | SQL Server | MySQL | PostgreSQL | Neon | Oracle | Power BI | Drizzle | Prisma | Better Auth | Stripe | Inngest | Resend | BrightData | Vitest | MSW | Playwright | Git | GitHub Actions | Vercel | AWS | Azure | Docker | Red Hat Enterprise Linux | Linux CLI | VMware | Windows Server | PowerShell | Bash | Three.js | WebGL