

PETER C. BENNETT

Forward-Deployed AI Engineer | Principal-Level Enterprise AI Delivery

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EXECUTIVE PROFILE

Principal-level AI/software engineer with 2 years of Forward Deployed Engineering experience, backed by more than a decade of earlier customer-embedded technical delivery with the same core operating pattern: entering ambiguous enterprise environments, working directly with executives and engineers, defining the real problem, designing the solution, and staying hands-on through integration and production delivery. Current agentic-AI work spans deterministic workflows, RAG, structured outputs, evaluation, human-review gates, Python/TypeScript, and AWS. Enterprise delivery includes acquisition integrations, platforms tied to \$50M+ in recurring revenue, >90% AWS cost reduction, 99.97% uptime, and systems supporting \$200M+ in contract volume.

CORE EXPERTISE

Forward-Deployed Delivery - Customer Discovery · Ambiguous Problem Decomposition · Solution Architecture · Hands-On Implementation · Enterprise Integration · Executive & Engineering Stakeholders · Production Ownership

Agentic AI & LLM Systems - LangGraph · LangChain · OpenAI · Anthropic Claude · RAG/pgvector · Structured Outputs · Human Review · Evaluation · Observability

Software & Integration - Python (Django, FastAPI) · TypeScript/Node.js · REST & GraphQL APIs · Hexagonal/Ports-and-Adapters · PostgreSQL/pgvector · Redis · Event-Driven Systems

Cloud & Platform - AWS (EC2, EKS, Lambda, S3, SQS) · Kubernetes · Docker · GitHub Actions / CI/CD · Production Reliability · Cloud Cost Optimization

PROFESSIONAL EXPERIENCE

LeadsON - Principal AI Engineer (Independent Project)

Remote · Jan 2025-May 2026

Built and personally engineered agentic AI and automation systems as an independent project, applying enterprise software disciplines across architecture, implementation, testing, observability, resilience, and deployment while remaining the hands-on technical owner.

- Architected a production-oriented AI platform with 16 specialized agents, 25+ BullMQ queues, and an 18-state deterministic workflow, using models for generation and classification while code retains control of state, scheduling, approvals, and authoritative actions.
- Engineered multi-provider LLM routing, RAG/pgvector grounding, structured outputs, circuit breakers, human approval gates, and observability; validated the system with 1,700+ tests and end-to-end validation spanning 196 requirements.
- Integrated Claude Code and OpenAI Codex into daily engineering workflows for architecture exploration, implementation, testing, debugging, and refactoring across Python/TypeScript codebases while retaining deterministic review and deployment controls.
- Published [CaseFlow](#) as inspectable proof of controlled agentic engineering: a 21-node LangGraph workflow with 4 bounded AI tasks, 3 human-review gates, deterministic controls, and a 30-case / 11-metric regression suite with OpenAI/Anthropic adapters.

TTAC Publishing (formerly TruNorth Management) - Director of Technology

Remote · Aug 2018-Nov 2025

Led technology strategy and hands-on delivery for a high-volume digital publishing and e-commerce network, partnering directly with executive, marketing, fulfillment, customer-service, and engineering teams to translate operational requirements into production cloud, e-commerce, and automation systems.

- Reduced recurring AWS spend by more than 90% (~\$15-20K/month to ~\$1K/month) through architecture modernization, governance, Spot capacity, managed-service migration, and CloudFront redesign - without compromising reliability.
- Unified WordPress, WooCommerce, Shopify, and Laravel APIs via an AWS event-driven pipeline, integrating order, fulfillment, customer, and analytics data across e-commerce channels.
- Sustained 99.97% uptime across three e-commerce properties through proactive monitoring and capacity planning, including repeated 1M+ viewer documentary launches.
- Migrated legacy CI/CD from Puppet to GitHub Actions, tripling release cadence; launched 3 Shopify Hydrogen/Next.js storefronts with integrated subscription analytics.
- Directed and mentored a distributed engineering team while remaining the primary technical point of accountability to executive leadership.

Hearst Magazines - Senior Web Application / API Developer (Acquisition Technical Integration Lead)

Remote · 2007-2018

Senior hands-on architect for Hearst Digital's flagship properties (Oprah.com, Cosmopolitan.com, Esquire.com, GoodHousekeeping.com), repeatedly selected for ambiguous, high-impact initiatives requiring technical discovery, executive communication, architecture, integration, and implementation.

- Embedded onsite with acquired-company executives and engineering teams as hands-on technical integration lead for a \$10M+ social-platform acquisition; entered an unfamiliar production environment, assessed the existing architecture and systems, defined the integration path with Hearst and acquired-company stakeholders, and personally implemented the resulting integrations.
- Architected RESTful API services supporting subscription, content, and identity systems tied to \$50M+ in recurring revenue and serving 1M+ monthly visitors.
- Led modernization from legacy Perl/Mason to Python/Django and designed reusable publishing infrastructure spanning JSON rendering, OAuth authentication, content and identity integration, and automated testing across high-traffic properties.

BDP International - Senior Technical Lead, Enterprise Logistics Integration

Philadelphia, PA · 2003-2006

Customer-side technical implementation lead for enterprise deployment of the G-Log Transportation Management System (later Oracle-acquired) at one of the world's largest privately held logistics organizations.

- Directed customer-side implementation of G-Log, translating global logistics workflows into production integrations, APIs, and ETL pipelines supporting \$200M+ in transportation rate contracts while working directly with business leaders, software vendors, and engineering teams.
- Stayed involved from discovery and workflow definition through enterprise architecture, systems integration, and production rollout.

EARLIER ENTERPRISE EXPERIENCE

- **Tech USA / Accugenix** - Bioinformatics portal architecture for 3,000+ pharmaceutical clients; enabled a \$25M+ new revenue line.
- **Conversion Services / Bristol-Myers Squibb** - HR compensation and executive stock-planning systems for 17,000+ executives globally.
- **Advanced Systems Consulting** - Delivered systems for GE Corporate, GE Information Services (\$1B+ B2B marketplace), and Equitable Resources.

EDUCATION

- Drexel University - Computer Science studies · Learning Tree International - Software Project Management