

Leif Taylor

Principal Software Architect | Technical Director | AI & Cloud Systems Strategist

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Skills

Expert in distributed systems, generative-AI integration, and large-scale cloud infrastructure.

Proficient in TypeScript/Node, Python, Java, C#, Objective-C, Azure, AWS, LangChain/OpenAI/Anthropic, React-Native, Angular, Svelte, Terraform, Kubernetes, Docker, GitHub Actions, Ansible, CircleCI, Helm, Flux, MongoDB, Cosmos DB, VMware, Hyper-V, MySQL, Vitess, PostgreSQL (+ RDKit, PostGIS, PGVector), Snowflake, Elasticsearch, Oracle (11g-18c on Linux/HP-UX/Solaris/AIX), SQL Server 2012+, Datadog/OpenTelemetry, Grafana, and the Atlassian suite (Bitbucket, Jira, Confluence, Bamboo).

Specializations include software architecture, AI/ML systems design, CI/CD automation, virtual infrastructure management, data resiliency and availability, observability, and regression testing at scale.

March 2023 - Present

ConnectBase, Westborough MA- *Principal Engineer, Director of DevOps*

- Transitioned all services (30+) from legacy, non-containerized, VM-based hosted apps to scalable, containerized microservices.
- Reengineered monolithic Pricing Engine into a distributed, worker-driven microservice system, enabling horizontal scalability, fault isolation, and concurrent quote computation.
- Successfully optimized cloud resources and configurations, achieving a monthly cost reduction of over \$50,000 on Azure, translating to an annual savings of \$600,000 and a 30% overall reduction in cloud expenditure.
- Implemented enterprise-scale feature-flag infrastructure, unified secrets management, Git branching conventions, and progressive-delivery (canary) deployments - establishing reproducible, low-risk release engineering across all services.
- Spearheaded ConnectBase's AI strategy by integrating Large Language Models (LLMs) for semantic search (RAG) and data-layer intelligence - powering TAM Analysis, automated ingestion of 10 K+ supplier products weekly, and semantic knowledge-base search.
- Refactored legacy raw-SQL data paths into a type-safe Data Access Layer and Object-Relational Mapping (ORM) abstraction - standardizing query logic, improving database security, and reducing injection risk across all services.
- Developed CI/CD pipelines for 30+ services written in Java, TypeScript/Node, Python, and C#, where none previously existed.
- Implemented unit/functional/e2e tests across the entire product suite using generative AI techniques, filling a previous gap.
- Key point of contact for disaster recovery and system outages, demonstrating leadership and expertise in high-stakes, time-sensitive scenarios.

Jan 2019 - March 2023

Mobile Heartbeat, Waltham MA - *Promoted from Senior Devops Engineer to Principal Devops Lead*

- Designed and built serverless internal application testing framework, fully deployable through Terraform IAC, and integrated into CI/CD pipelines.
- Built CI/CD for multitenant microservice driven applications on Azure. This includes terraform orchestration for provisioning Azure resources, Flux/Helm for deployment of microservices to Kubernetes cluster, automated testing deployment for repositories, and bootstrapping/management of backend databases.
- Designed CI/CD pipelines for both iOS and Android mobile applications.
- Handled/Supported customer releases across Android, iOS, and Windows platforms.

June 2016 - Jan 2019

Actifio, Waltham MA - *Promoted from DevOps Intern to Lead DevOps Engineer to Head of DevOps*

- Chief developer of automated regression testing framework; overseeing stack with Python/Node.js back-end, and CI with docker, ansible, jenkins, and robot framework.
- Deploying and managing an environment of 100+ dev databases (Oracle and SQLServer) and 2000+ VMs spanning across on-site ESXi, Hyper-V, Physical Servers, and remote EC2 instances deployed on AWS VPC.
- Maintaining developer portal: gitlab repository, documentation, help-site, and dashboard.
- Conducting code review, traveling to India to collaborate with, and mentor team members. Developing full-stack tools for test execution, host management, and log analysis.

Consulting / Fractional Leadership:

2025 - Present | Technical Director, Chemveric Inc.

Architected and led end-to-end development of **Chemveric**, a B2B SaaS **cheminformatics marketplace** connecting buyers and suppliers of research chemicals and materials.

- Spearheaded platform design from **greenfield concept to production launch**, implementing a multi-tenant microservices architecture (NestJS / Node, PostgreSQL + RDKit, Redis, AWS).
- Built and oversaw systems for **AI-assisted supplier catalog ingestion**, automated **RFQ workflows**, and intelligent **funding-opportunity matching**.
- Directed a distributed engineering team through CI/CD pipelines, feature-flagged deployments, and rigorous data-model governance.
- Pre-launch marketplace has **100 + verified suppliers across the U.S. and China registered on the platform**.

2022 - Present | Founding Member & Principal Architect, Alacrity Solutions LLC

An AI consulting firm specialized in partnering with F500s to seamlessly integrate Large Language Models (LLMs) for applications in software development, customer support, success, and finance. Actively collaborated with renowned corporations, guiding them to transform AI concepts into tangible, operational products.

- **Global Tax-Technology Client** - Developed LLM-driven document-understanding and compliance-automation workflows (RAG architecture), enabling intelligent contextualization of complex regulatory data while safeguarding sensitive client information.
- **Computational-Science Client** - Architected AI integrations unifying heterogeneous experimental and simulation datasets; implemented semantic-indexing and molecular-representation pipelines to accelerate internal discovery and knowledge retrieval.
- **Industrial-Chemistry Client** - Advised on deployment of AI-based analytics for process optimization and regulatory documentation parsing, including large-scale harmonization of supplier and materials data across international divisions.

2022-2023 | CTO & Principal Architect, Imprint.live

Led the development of a scalable AI-driven social media platform envisioned to rival Twitter. Utilized OpenAI tools to achieve advanced post moderation, manage synthetic user interactions, and assess user value portfolios, offering customized user analytics for our esteemed stakeholders.

2022 - 2024 | Consultant/Contributor, Open Interpreter

Contributed as a consultant for Open Interpreter – a highly acclaimed repository on GitHub. This platform integrates capabilities enabling the execution of LLMs locally on users' machines. With this, LLMs can adapt and make modifications to the local file system and execute code autonomously.

2020 - 2023 | Founding Member and Chief Architect, Storymill AI

Pioneered a unique social media application tailored for content creators. This platform empowers users by leveraging the prowess of AI, facilitating the creation of comprehensive novels, intriguing screenplays, and captivating short stories.

2009 -2015 - Professional Pianist / Conductor / Choral Director

September 2005 - May 2009

San Francisco Conservatory of Music – *B.M. in Composition, Music Theory, and Piano*