

Tim Bailey-Jones

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Senior software engineer and cloud architect with 10+ years building and operating multi-cloud platforms (AWS, GCP, Kubernetes) and 15+ years in CI/CD, DevOps, and systems engineering. Delivers across the full stack — backend services, frontend UIs (React/Vite, HTML/CSS/JS), infrastructure automation, and platform tooling — with particular depth in Go, Python, and TypeScript on AWS and GCP. Brings additional expertise in AI-assisted engineering: reviewing AI-generated code for correctness, security, and long-term maintainability in high-liability codebases. Multi-cloud certified across AWS and GCP, with decades of pre-cloud on-prem experience.

Work Experience

Principal Consultant / Owner LinuxTampa, LLC

Aug 2025 – present

Platform Engineering & DevOps (confidential defense contractor)

- Maintained and extended the internal developer platform: CI/CD pipelines, server migrations, security hardening (STIGs & CMMC compliance), and Artifactory enhancements.
- Wrote a Go program to migrate 38 terabytes of dually-encrypted (CSE+SSE) assets to a new S3 bucket, enabling Artifactory's redirect-to-S3 feature for large objects (ISOs, machine images) and executing an overnight maintenance-window cutover.
- Tools: GoLang, Terraform, NodeJS, Python, Ansible, rspec, bash, SOPS, AWS (EKS), VirtualBox & Vagrant
- Dev Platform Supported: GitLab Enterprise, SonarQube, JFrog Suite, EJBCA & OpenSearch.

AI Code Evaluation, on-demand contract engagements: Mercor.com, Snorkel.ai, Alignerr.com

- Applied senior engineering judgment to evaluate AI-generated code for correctness, reusability, documentation, and edge cases that automated tooling misses.
- Delivered structured, ranked feedback that directly informed model training and quality benchmarks for Mercor.com, Snorkel.ai, and Alignerr.com.

Software Developer & DevOps Engineer Game 7 Staffing (client: Amazon Robotics)

Jul 2024 – Jul 2025

- Planned, coded, tested, and executed migrations of dozens of legacy TypeScript, Golang, and Java repositories using AWS CDK toolkit and internal Amazon build tools to orchestrate AWS infrastructure upgrades, avoiding downtime.
- Maintained rigorous code quality standards while integrating Amazon Q and Claude Code as agentic coding assistants — reviewing all AI-suggested code for correctness, security implications, and long-term maintainability before approval.
- Upgraded Aurora/MySQL 5.7 to 8.0 across six RDS clusters — resolving end-of-life risk, improving throughput and compatibility, and eliminating AWS Extended Support surcharges.

Senior Cloud Engineer McKinsey & Company

Jan 2021 – Mar 2024

- Built automated CI/CD, GitOps deployment, security pipelines, and customer release for Matter Foundations

(MF), a multi-cloud platform spanning AWS (EKS), GCP (GKE), and Azure that served as the IaC foundation layer for client engagements; delivered AWS and GCP variants.

- Automated installation of backstage.io and GitLab CE, enabling consistent, repeatable platform deployments.
- Built Go-based AWS/GCP account cleanup automation, enabling repeatable end-to-end testing across 30+ MF repositories and improving reliability across the board.

DevOps Engineer

Candid Partners

May 2020 – Jan 2021

Cloud consulting firm; acquired by McKinsey & Company in 2021.

- Engineered a serverless Lambda to encrypt payment card data immediately post-authorization for a Payment Gateway client, hardening PCI DSS compliance.
- Built a Python/boto3 automation program to migrate RDS databases between MSSQL engines with minimal downtime.
- Built components of ELMA (Enterprise Logging, Metrics & Analysis), a serverless AWS-native observability platform, for a prominent public-sector client.

DevOps Automation Engineer

Stelligent Systems

Jul 2017 – May 2020

AWS Advanced Consulting Partner for DevOps & CI/CD

- Extended open-source AWS microservice tooling by contributing new features to Stelligent mu, used across multiple client engagements.
- Delivered CI/CD and automated testing workshops for client engineering teams, standardizing deployment workflows and eliminating manual steps in release pipelines.
- Designed and implemented repeatable CI/CD pipeline templates for application and infrastructure delivery, replacing ad-hoc release processes with version-controlled, auditable pipelines.
- Served enterprise clients including AQR Capital, 3M, Refinitiv/Thomson One, and Atrium Campus.

Selected Projects

gotonight.com

Sole developer & operator · 15+ years

Live music event search engine covering multiple Florida markets; sole developer and operator for 15+ years.

- Built on ColdFusion/Java, MSSQL, and jQuery — maintained and extended continuously since launch.
- Built a fuzzy-matching deduplication engine to eliminate near-duplicate event and artist submissions.
- Implemented layered security: input sanitization, rate-limiting, and anti-bot protections against scraping and spam.
- Integrated Google Maps API for address geocoding/verification, improving event location accuracy.

Technical Skills

Cloud: Linux (primary OS: Arch, Debian/Ubuntu, RedHat/Amazon/CentOS/Rocky), AWS, GCP, Terraform/OpenTofu, AWS CDK, GitOps, Docker/Kubernetes/k3s/GKE, Traefik, Longhorn, cert-manager/Let's Encrypt, WireGuard, Digital Ocean, SRE practices

Languages: Go (APIs, containers/lambda), JavaScript/TypeScript/Node/Express, Python/boto3, Java, C/C++, Bash/Zsh, LaTeX

Testing: pytest, jest, vitest, jasmine, mocha, chai, selenium, React Testing Library, rspec, JUnit, Postman/Newman

Version Control & Workflow: Advanced git workflows, branching strategies, and release pipeline automation,

GitLab (Enterprise + CE), Forgejo (git server + Actions CI/CD)

AI-Assisted Engineering: Agentic tools: Cursor, Claude Code, OpenAI/Codex, Amazon Q/Kiro, Gemini/Vertex, ollama, local LLMs

AI code review (correctness, reusability, security, documentation quality), governance & risk mitigation for high-liability codebases, prompt engineering, AI-assisted planning/testing/security/vulnerability scanning
Contract AI model trainer/evaluator (for Mercor.com, Snorkel.ai, and Alignerr.com)

Frontend: HTML/CSS, React, Vite, Bootstrap, MaterialUI, jQuery, jQuery UI, text-based CLIs, ncurses

Databases: SQL: AWS RDS, Aurora, Postgres, MySQL, SQL Server — NoSQL: DynamoDB, MongoDB, Redis/Memcached

Certifications

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| • AWS Certified Solutions Architect, Associate | Amazon Web Services |
| • AWS Certified DevOps Engineer, Professional | Amazon Web Services |
| • AWS Certified Developer, Associate | Amazon Web Services |
| • Google Cloud Professional Cloud Architect | Google Cloud |