



# Tim Bailey-Jones

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Dynamic software developer and cloud engineer with extensive skills across Linux, AWS, GCP, Kubernetes, frontend, backend, DevOps and AI-assisted dev tools. Successfully contributed to projects utilizing diverse technologies, enhancing system performance and reliability. Skilled in collaborating with teams to streamline workflows, which boosts productivity. Offers a strong foundation in technical problem-solving and a commitment to driving innovative solutions for team success.

## Work Experience

08/2025 — present  
San Francisco, CA, USA

### Contract Software Engineer Mercor.com

Performed software development tasks, bug report validation and AI training & feedback activities as assigned.

07/2024 — 07/2025  
Austin, TX, United States

### Software Developer at Amazon Robotics Game 7 Staffing

Client: Amazon Robotics, Westborough, MA / Toronto, ON

- 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 deployments, avoiding downtime. Became well-versed in using **Amazon Q, Claude & Cline** AI code assistants, boosting productivity and quality.
- Made other improvements as needed to increase throughput & scalability, fix bugs, and lower costs by upgrading RDS engines from Aurora/MySQL 5.7 to 8.0. Included DBA work.
- Reviewed & approved the pull requests of other team members, and provided useful feedback.

01/2021 — 03/2024  
Atlanta, GA, US

### Cloud Engineer McKinsey & Company

- Developed automated build, deployment, and security pipelines for Matter Foundations (MF), our Cloud Foundation product across all three major cloud platforms, which enabled a shorter on-ramp on our transformation projects.
- Implemented auto-installation processes for backstage.io and GitLab CE, helping to simplify setup and reduce configuration time for new projects.
- Wrote AWS/GCP account cleanup scripts in GoLang, which enabled repeatable end-to-end testing of over 30 MF repositories and improved our testing reliability across the board.
- Updated the deployment guide in Confluence, making it more user-friendly and accessible, which helped team members and client staff understand the process.
- Paired with and mentored junior developers, sharing knowledge and skills to elevate their contributions to the team and fostering a collaborative learning environment.
- Contributed to both AWS and GCP versions of MF, which expanded our product's capabilities and offered more options for our clients. It also allowed us to rotate our engineers more easily amongst clients that shared the MF platform.

05/2020 — 01/2021  
Atlanta, GA, US

### DevOps Engineer Candid Partners

Candid Partners was a cloud consulting firm that was acquired by McKinsey in 2021.

- Made dozens of improvements to AWS microservices for a Payment Gateway client, including a serverless lambda to encrypt credit cards, immediately after payment processing.
- Wrote python/botos script to migrate RDS databases from one engine to another, with minimal downtime and no data loss.
- Implemented parts of ELMA (Enterprise Logging, Metrics & Analysis), a serverless AWS-native logging application, for a prominent public-sector client.

07/2017 — 05/2020  
Reston, VA, US

### **DevOps Automation Engineer** **Stelligent Systems**

Stelligent was an engineer-driven AWS Advanced Consulting Partner, whose business focused solely on DevOps, CI/CD pipelines and Automation on AWS.

- Consulted with clients on both technical and organizational DevOps practices, which helped improve their workflows and efficiency in managing cloud environments.
- Developed and contributed new features to open source tools like Stelligent mu, focusing on microservices in AWS.
- Conducted training sessions for client development teams on CI/CD topics and automated unit tests, empowering teams to implement best practices and reduce deployment times.
- Authored technical articles for both internal and external audiences, sharing insights and knowledge to supported our brand in thought leadership.
- Implemented repeatable and resilient CI/CD pipelines for applications and infrastructure, which increased deployment reliability and reduced downtime for clients.
- Collaborated with high-profile clients including AQR Capital, 3M, Refinitiv/Thomson One, Atrium Campus, and RugsUSA, delivering tailored solutions that met their unique needs.
- Continued my role seamlessly after Stelligent was acquired by Mphasis in November 2018, maintaining the quality and consistency of our services under the Stelligent brand.

08/2016 — 03/2017  
Tampa, FL, US

### **Sr. Software Engineer** **Impulse Point (now OPSWAT)**

Responsibilities related to Impulse's flagship product SafeConnect, which is a managed on-site Linux cluster providing network access control (NAC) to universities and businesses:

- Converted existing local SVN code assets to git repositories in BitBucket.
- Implemented bug fixes and new feature development
- (Linux, Angular 1.x, Java 7, Tomcat 7).
- Added Netconf & JunOS programmatic router control to SafeConnect app.
- Created, updated and deprecated technical and developer documentation
- Helped Customer Service department as needed to replicate bugs reported by end-users.

03/2021 — 08/2016  
Tampa, FL, US

### **Sr. Advisory Systems Engineer** **Syniverse Technologies**

Technical Lead for VisProactive (VPA) development team.

Business context:

- Live ingestion of International Cellular Roaming traffic without interruption.
- Near-realtime detection of related error messages & timeout conditions that prevent serving carriers from processing calls of roaming travelers
- Alerting the Network Operation Centers of both serving and home carriers so they can collaborate in resolving these errors ASAP.

Initial VisProactive release: UniRoam/SS7GSM data feeds.

- Led the creation of backend services to ingest data, run summarization queries every 15 minutes, and compare latest 6 summary records to each other to programmatically identify anomalies and trends on a variety of key fields.
- Created alerting infrastructure to allow users to select which thresholds they wanted to see alerts for, and which emails should receive alerts.
- Each edition used similar architecture to the first.
- Converted Oracle DB to Vertica (5.0 through 7.3).
- Implemented load-balancing functionality to backend Vertica databases using open-source Octopus-LB program.
- Implemented process monitor for all feeds using open-source SupervisorD.org program, to allow web-based control of VPA services.

### (Syniverse Technologies, continued...)

Subsequent VPA releases for MDR/UDR, SS7CDMA feeds

- Performed advanced SQL tuning of large summarization queries, including techniques which override the cost-based optimizer, therefore eliminating the need to run "UPDATE STATISTICS" statements periodically, and in turn, decreasing maintenance windows.
- Designed & implemented a real-time MDR CE (Mobile Data Roam Correlation Engine) in C++, to match start & stop RADIUS messages and stream them to Vertica Database.
- Migrated first two Visproactive releases (Uniroam & SS7GSM) to Vertica 5.0.8.
- Participated in Vertica migrations from 5.0.8, to 5.1, and again to 6.1.
- Led team through Java 1.6 to 1.7 migration
- Profiled, Monitored & Tuned dev/test/prod systems with hundreds of JVMs to manage network connections, memory usage, and to minimize GC activity.
- Led VPA team through pilot SCM migration from Telelogic Synergy to Subversion 1.6. Based on our successful experience, all products under active development within Syniverse were migrated to Subversion server.
- Introduced use of Jenkins for CI/CD infrastructure to build software hosted iSubversion. Based on successful experience with VPA team the centralized built team adopted Jenkins to bring CI/CD to rest of company.

Backend Development performed for other products

(2001-2010)

- STARS (Streamliner Terminal Access Reporting System)
- CNAM-LIDB (Calling Name & Line Information Database),
- MDR (Mobile Data Roaming)
- AAA Broker (Authentication, Authorization & Accounting).

## Projects

04/2013 — present  
San Antonio, FL, US

### Webmaster GoTonight.com

GoTonight.com is a LIVE local music search engine serving the Florida market. The main site was written in Adobe ColdFusion with a MSSQL database. The HTML/CSS is old-school table-driven code that looks good on desktop, but is not mobile-friendly or responsive. In addition to routine textual / content edits over the years, I added these features:

- Password reset functionality (links sent via email).
- Salted/encrypted passwords (previously they were in plaintext)
- Support for "streaming-only" events to support local, live musicians throughout the COVID-19 shutdowns in 2020-2021.
- "Fuzzy-match" feature to notify site owners of new bands & venues that have similar names to existing entities, to help reduce duplicate data entry.
- Automatic lat/long lookup & storage of venue addresses at add/modify time, to assist in geographic radius search function.
- Recurring database dumps from production DB to a backup DB in case of outage at hosting provider.
- Custom Google Analytics hooks to track visits by city & county.
- Caching of Google's geo-placecode/geo-address API responses in MSSQL.
- Isolated development environment for upwork contractors.

I eliminated PHP from the site's architecture by replacing those scripts with ColdFusion versions. This improved an internal admin app and the REST server that the GoTonight Android app uses.

## Technical Skillset

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### Cloud Technologies:

- Debian/Ubuntu Linux
- RedHat/Amazon/Centos
- Arch Linux
- Shell Scripting (bash/zsh)
- AWS - 3 certifications (Sol. Arch., DevOps Pro, Developer Assoc).
- Google Cloud Platform (Prof. Architect Cert. 12/2023).
- Digital Ocean
- Terraform / OpenTofu (AWS, GCP, Azure)
- AWS CDK (Cloud Development Kit)
- Docker / Kubernetes / GKE
- Python / boto3
- System administration (on-prem & hardware upgrades)

### Programming Languages / Frameworks:

- Golang (APIs, RDBMS work, containers/lambda)
- JavaScript, Typescript, Node, Express
- Java (command line, servlets, JDBC)
- C, C++ (Linux / commercial Unix)
- PHP / Cold Fusion (see Project section: gotonight.com)
- Advanced git usage, including workflows / branching / automation.
- Automated Testing: jest, selenium, go2xunit mocha, chai, junit,

### AI Assisted Development:

- Cursor, OpenAI, Amazon Q, Gemini, Claude, Cline
- Uses: Planning, Testing, Documentation, Code Reviews & Security Scanning

### User Interfaces:

- HTML / CSS, React, bootstrap, MaterialUI
- Text-based CLIs, ncurses, and X11/Gtk/Qt XWindows

### Databases:

- AWS RDS, AWS Aurora,
- GCP CloudSQL (including migrations)
- SQL: Postgres, MySQL, SQL Server
- NoSQL: DynamoDB, MongoDB
- Memcache/Redis

## Social Media

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LinkedIn



GitHub

## Other Interests

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- Brass Instruments
- Classical Music
- Home Improvement
- Rural Living
- News / Economy
- Technology
- Languages (some Spanish and German)