



# 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

Perform software development tasks and AI feedback activities as assigned. (1099/flexitime)

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

### Software Developer at Amazon Robotics

#### Game 7 Staffing

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

- Plan, code, test and execute 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.
- Make 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.
- Review/approve the Pull Requests of other team members, and provided useful feedback.

01/2021 — 03/2024  
Atlanta, GA, US

### Cloud Engineer

#### McKinsey & Company

McKinsey is a global management consulting firm.

- Developed automated build, deployment and security pipelines for Matter Foundations (MF), our Cloud Foundation product for all three clouds. Includes installation of backstage.io & GitLab CE.
- Wrote AWS/GCP account cleanup scripts in golang to enable repeatable end-to-end build validation.
- Performed extensive end-to-end E2E testing spanning across 30 MF repos (hosted in GitHub)
- Updated documentation for deployment guide (Confluence)
- Paired with and mentored junior developers.
- Contributed to the AWS and GCP versions of MF.
- Continued to serve CandidPartners clients
- Represented McKinsey at AWS:ReInvent conference in 2021

Skills: AWS & GCP, Linux, Mac, bash, docker, terraform, GoLang, python, node, Javascript/TypeScript, serverless, automated testing, DevSecOps pipelines (tfsec / checkov), GitLab, GitHub Actions, lambda, RDS, S3, Cloudwatch

05/2020 — 01/2021  
Atlanta, GA, US

### DevOps Engineer

#### Candid Partners

Candid Partners was a cloud consulting firm that was acquired and renamed Cloud by McKinsey in January 2021.

- Made dozens of improvements to AWS microservices for a Payment Gateway client, including a serverless lambda to encrypt credit cards, immediately after payment processings.
- Wrote python/boto 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.

Skills: AWS, terraform, Jenkins, python3, RDS, Lambda, PCI compliance, encryption, SQS/SNS, RDS, S3, Cloudwatch, Cloudtrail, etc.

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 about technical and organizational DevOps practices.
- Contributed new features to open source tools like Stelligent mu (microservices in AWS).
- Conducted training sessions for client development teams on CI/CD topics, automated unit tests.
- Wrote technical articles for internal and external audiences.
- Implementation of repeatable, resilient CI/CD pipelines for applications and infrastructure.
- Represented the company at AWS Re:invent conferences in 2017 and 2018 (Las Vegas, NV)
- Clients included AQR Capital, 3M, Refinitiv/Thomson One, Atrium Campus, and RugsUSA.

Stelligent was acquired by Mphasis in Nov. 2018, and my role continued as before. The Stelligent brand is still being used by Mphasis.

Skills: AWS, terraform, CloudFormation, Linux, Docker, ECS, S3, RDS, Lambda, CICD Pipelines, Jenkins, CodeBuild/CodeDeploy, CodeCommit

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 codebase to cloud-based git repositories, hosted by Atlassian BitBucket
- Implementing bug fixes and new feature development
- (Linux, Angular 1.x, Java 7, Tomcat 7).
- Adding Netconf-based programmatic router control to SafeConnect (with Juniper JunOS).
- Create, update and deprecate technical and developer documentation as needed (Confluence)
- Assisted Customer Service department as needed to replicate bugs reported by end-users.
- Researching moving existing product to cloud (AWS)

Skills: Porting · Linux · Databases · C++ · Java · Mac OS X · Python · Shell Scripting · XML · Web Applications · REST · System Administration · Troubleshooting · Open Source · Networking · TCP/IP · Devops · Cloud Computing · Ansible · SQL · JavaScript · HTML5 · Angular 1.x

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
- 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. Database: Oracle.
- Created alerting infrastructure to allow users to select which thresholds they wanted to see alerts for, and which emails should receive alerts.

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

Subsequent VPA releases for MDR/UDR, SS7CDMA feeds

- 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.
- 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 two Visproactive releases (Uniroom & SS7GSM) from Oracle 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 (with WANDisco plugins).
- Introduced use of Jenkins for CI/CD infrastructure to build software hosted in Subversion. 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 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. Over the years, I have added:

- password reset functionality (links sent via email).
- salted/encrypted passwords (previously there 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.
- 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.
- caching of Google's geocode/geocode API responses in MSSQL
- isolated development environment for upwork contractors.

I removed dependencies on flaky ODBC drivers in PHP portions of gotonight's admin console, which are used by the Gotonight Mobile App for Android. I also performed a MSSQL 2014 to 2019 upgrade in 2020 to support the use of additional SQL soundex functions and SSL connections to the database.

## Technical Skillset

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### Cloud Technologies:

- Debian/Ubuntu Linux
- RedHat/Amazon/Centos
- Arch Linux
- Shell Scripting (bash/zsh)
- AWS - 3 certs (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 / AKS
- 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)

### 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



X / Twitter



Facebook

## Other Interests

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