Bhargavi Gudisa

Software Engineer Cloud Infrastructure & AI Quality

(561) 987-0286 • bhargavi4044g@gmail.com • USA

GitHub | LinkedIn | Portfolio

Summary

Software engineer with 5 years across the US and India building cloud infrastructure and the quality systems that run on top of it. Provisions GCP and Azure environments with Terraform, packages Python and Bash pipelines into Docker on Linux, and runs AI response evaluation with human-in-the-loop review and root-cause routing so each failure reaches the one team that can fix it. M.S. in Computer and Information Sciences, Florida Atlantic University

Skills

Infrastructure & Cloud	Terraform, Docker, Infrastructure as Code (IaC), GCP (Cloud Functions, Cloud Storage, Compute Engine), Microsoft Azure (Data Factory, Synapse, App Service), Linux, Git, GitHub
Languages	Python, Bash, SQL (T-SQL), C#, JavaScript
Data & Reporting	Microsoft SQL Server, Azure SQL Database, Oracle PL/SQL, ETL, pandas, relational data modeling, indexing and query tuning, Power BI, Tableau, DAX, SSRS
AI & Integration	AI quality evaluation, human-in-the-loop review, Microsoft Copilot Studio, REST APIs, Workato, Make, n8n, Power Automate, SharePoint Online
Practice	SDLC, Agile, design and code reviews, test planning, data migration and conversion, technical documentation, Jira, Asana

Experience

Software Engineer May 2025 – Present

Lumin Innovations *Remote, United States*

- Built a Python and Bash ingestion application, packaged it in Docker, and provisioned its GCP storage and compute with Terraform, so every Linux environment runs the same version-controlled build.
- Set up knowledge-base governance with an owner per content area and Jira-tracked reviews each release; automated Bash audits route 200+ stale entries a month to their owners and cut staleness by 45%.
- Built Python and Bash tooling that analyzed 5,000+ AI-generated chat responses, flagging quality gaps at 98% accuracy in remediation reports engineers used to prioritize fixes.
- Designed a root-cause process separating content gaps from prompt-handling failures, so engineers check one cause per failure instead of both; debugging time fell 30%.
- Evaluated, configured, and integrated SaaS automation platforms (Workato, Make, n8n) into content and training workflows, replacing manual handoffs between teams with automated triggers.
- Reported AI accuracy and adoption to executives monthly through Tableau dashboards and set cross-functional priorities in Asana; response precision rose 25%.

Systems Analyst Aug 2024 – May 2025

Florida Atlantic University *Boca Raton, FL*

- Designed a layered GCP ingestion system with Cloud Functions and Terraform that separated collection, processing, and storage, making new data sources quick to onboard.
- Deployed the pipeline in Docker on Linux virtual machines and optimized its Bash metadata extraction scripts, keeping development and production consistent and cutting environment-specific failures.
- Defined quality criteria for AI system responses and built a 500+ case edge-case test dataset, giving each release a repeatable, traceable test baseline.
- Worked with documentation owners in Jira to fix low-confidence knowledge articles, raising search success 18%; content audits cut outdated entries 40% and saved about 15 hours of manual review a week.
- Ran cross-team workshops to align system output with institutional policy, reducing policy-related escalations by 22%.

Project Engineer Jan 2021 – Oct 2023

Wipro Limited *India*

- Containerized the QA framework with Docker and extended Terraform configurations for GCP, cutting manual setup as test volume grew and speeding developer onboarding.
- Migrated data processing scripts to Bash on Linux servers, making them portable across environments and laying the base for later GCP pipelines.
- Ran automated test execution and pre-release validation across the SDLC, and joined engineers in design and code reviews to check changes against quality specifications.

- Reviewed chatbot replies as the human check on AI output, flagging inaccurate information to protect data integrity across the conversational platform.
- Coordinated sprint planning in Jira and Asana across global teams in multiple time zones, and built Tableau dashboards that gave leadership one view of program performance.

Projects

Review Sentiment & Competitor Radar | *Python, Streamlit, Plotly, pandas, SQLite, VADER* Code | Live demo

- Built an aspect-based sentiment pipeline over the Yelp Open Dataset (6.99M reviews) that scores a business against five nearby competitors across six service aspects, rather than collapsing reviews to one number.
- Scored sentiment per sentence so a single review can praise the coffee and damn the wait without the two cancelling out; chose VADER and keyword matching over an LLM for cost, speed, and explainability.
- Shipped a Streamlit dashboard with radar comparison and automated gap analysis, surfacing the three aspects where the business trails most.

Record Retention Advisor | *Microsoft Copilot Studio, Microsoft 365* Town of Morrisville, NC

- Built a Copilot Studio agent that answers Town staff questions on how long to keep municipal records and how to handle them when retention ends.
- Grounded the agent in the Town's own retention schedule through knowledge sources and topics, replacing manual schedule lookups with a conversational interface inside Microsoft 365.
- Made every answer cite its schedule entry, so staff verify against the source before acting — destroying a record early is not a recoverable mistake.

Coffee Sensory Quality Data Pipeline | *Python, pandas, Azure SQL Database, Power BI*

- Built a Python pipeline that cleans the public Coffee Quality Institute dataset (1,300+ Arabica cupping reviews), applies named quality rules, and loads it into Azure SQL Database.
- Logged every rejected record with the rule it failed, so each loaded score traces back to its source row and no record drops silently.
- Published the data lineage and a data dictionary so other analysts can reuse the model rather than re-derive it.

Permit Request Tracker | *C#, ASP.NET Core MVC, Entity Framework Core, SQL Server, Azure App Service*

- Built a web application where staff log, assign, and close permit requests, modelled with Entity Framework Core over a normalized SQL Server schema.
- Wrote a T-SQL conversion script migrating legacy CSV records, coercing dates safely and refusing unparseable rows instead of inserting nulls.
- Chose indexes from before-and-after execution plans rather than intuition, and deployed to Azure App Service.

Education

M.S., Computer and Information Sciences — GPA 3.86 Jan 2024 – Dec 2025
Florida Atlantic University *Boca Raton, FL*

Relevant coursework: Cloud Computing, Database Systems, Big Data Analytics, Machine Learning, Data Mining, Data Visualization.

Certifications & Publications

- **Microsoft Certified: Azure Fundamentals (AZ-900)** — Microsoft.
- **Programming Essentials in Python** — Statement of Achievement, Cisco Networking Academy.
- **Hybrid model of a passive aggressive classifier machine learning approach to fake news detection** — Springer.