MICHAEL GALLO

SENIOR SOFTWARE ENGINEER

Arlington, VA • 732-742-7313 • michaelgallo@protonmail.com • [LinkedIn](#) • https://michaelgallo.dev/

SUMMARY

Senior Software Engineer with ~6 years of experience designing and developing scalable solutions within the e-commerce and banking sectors. Proven expertise in Golang, Python, and Linux with demonstrated leadership in mentoring junior engineers. Most recently, designed and implemented an automated integration testing plan and Jenkins pipeline for a federated Golang GraphQL Gqlgen data mesh, significantly improving testing efficiency for a top 15 bank.

TECHNICAL SKILLS

Programming Languages: Go, Python, Bash
Data & Cloud Technologies: Linux, GraphQL, Jenkins, Gqlgen, AWS (Lambda, Fargate, DynamoDB), Docker
Tools & Methodologies: SonarQube, Hashicorp Vault, Red Hat Drools, CI/CD, Agile

---

WORK EXPERIENCE

Accenture PLC   Arlington, VA
GraphQL Data Mesh Team, Aug 2023 - Present   Jul 2021 – Present
Senior Software Engineer
- Built POC of federated system in 2 weeks by writing Python Click CLI to handle full generation of data mesh subgraphs; POC was successfully used by senior leadership to persuade other teams in the organization to move to a federated system
- Design, develop, test and deploy features for a federated Golang GraphQL Gqlgen data mesh for top 15 bank; allows data to be shared across 13 data consumers complying with regulatory and internal requirements, serving ~1 million requests per day
  - Enable teams to independently manage and optimize their own subgraphs with either a Lambda or Fargate architecture; provided access to all subgraphs through a unified endpoint, improving reliability, flexibility, and scalability
  - Designed and implemented automated integration testing plan for 4 Golang repositories; greatly reduced integration issues, freeing up ~20% more time for new feature development
  - Created and implemented acceptance testing strategy for code generation tools to allow for repo-level testing, continuous integration and compliance with enterprise requirements
  - Managed Go upgrade from 1.22 to 1.23 across 7 repositories in order to comply with Enterprise End of Life (EoL)
  - Migrated secrets from Jenkins credentials to enterprise-preferred Vault-based secrets solution
- Refactored 35 resolvers to be more decoupled and standardized process for updating and writing new resolvers for the legacy non-federated server; process was up to 8 days faster and non-technical members can now execute process by following an SOP
- Designed a canary plan to move from the legacy server to the federation compatible server in order to facilitate a smooth migration
- Recognized as the go-to developer for Go after learning it in one month
  - Trained 2 junior engineers and 1 senior engineer on Go
  - Interviewed 4 developers for senior level Go roles on the account
- Delivered 3 training sessions to over 100 new joiners and account members, improving onboarding efficiency and knowledge transfer; topics covered Core Go concepts, an enterprise performance testing tool, and an enterprise acceptance testing tool

Drools Rules Engine Team, Sept 2021 – Jan 2023
Software Engineer
- Designed and developed a Dockerized Red Hat Drools based fraud detection rules engine for a top 15 bank; reduced overhead by enabling business analysts to implement business logic that would traditionally require costly developers

- Served as Decision Model and Notation (DMN) SME
  - Trained client leadership on DMN standard, enabling Accenture to successfully hand off rules engine to our client
- Won team of the year award, within a team of 10, across the entire bank

JD Sports WM   Edison, NJ
Python Developer   Feb 2019 – Jul 2021
- Achieved 400% year over year growth by automating key processes as the sole developer at a small e-commerce firm in the sporting industry
- Led the entire development cycle for a Python sales reporting software to automate the restocking and vendor tracking report generation process; provided automated emails with report to back office team of 4 people
  - Extracted, cleaned, and analyzed data from 3 sources (Amazon API, Shipstation, Google Sheets) to generate sales report with configurable date range and vendor filter; improved speed of report generation by almost 4 days
  - Increased restocking frequency from monthly to daily, which helped prevent competitors from buying out wholesale stock of products with recent spikes in sales
  - Facilitated an easier division of labor across staff members responsible for different accounts with vendor tracking feature
- Executed the end to end development of a new Python product analysis software to generate human-readable Excel reports, replacing legacy reporting; used to drive wholesale purchasing decisions
  - Gathered requirements from CEO for the product analysis reports
  - Implemented automatic filtering which removed 95% of wholesale SKUs that didn't fit business criteria for sale on Amazon; greatly increased productivity by reducing the number of SKUs that need to be manually reviewed for purchase
  - Analyzed vendor wholesale lists, historical Amazon catalog data, and JD Sports product data to calculate expected profit margins and sales velocity while taking into account product restrictions; improved data processing capacity by more than 10X
- Served as primary purchaser for six key wholesale accounts with annual spend per account of up to $500k

CERTIFICATIONS

AWS Certified Developer Associate   Apr 2024
Microsoft Certified Azure Fundamentals   Feb 2023
Google Cloud Platform (GCP) Associate Cloud Engineer   Aug 2022