ABENEZER MAMO

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full-stack developer with backgrounds in API design & development, micro-services, databases, fuzzing, cloud-native & server-less computing, NLP/ML

TECHNICAL SKILLS

- **Languages + Frameworks**: Python, Go, Haskell, JavaScript, Flask, Gin, React, Celery, SQLAlchemy
- **Infra + Ops**: AWS, GCP, Azure, Postgres, MongoDB, Redis, Docker, Kubernetes, Linux, Git, Jira, Hive

EXPERIENCE

Software Engineer, Klaviyo **2022 – Present**

Building various features necessary to ensure messages sent by clients get sent through the right platform and are delivered via the right channel with an emphasis on internal and customer delivery enablement & laying the foundations for scaling mobile @ Klaviyo.

- Built an internal & easily cuztomizable report generator using Django & MySQL
- Working on internal tooling such as poppy - a python CLI to simplify sampling, wrangling, tranforming, and cleaning data out of production and into local databass, and covme, a Slack Bot to automatically generate pytest coverage report based on CODEOWNERS.
- Integrating a third-party CDN (Fastly) into the mobile delivery pipeline to optimize virtual contact file fetch / load times from AWS S3 by 6 - 8 %
- Working with a team of 7 engineers and various other stakeholders across the company to build and manage Klaviyo's customer facing mobile application (with an emphasis on customer enablement)
- Debugging, troubleshooting, and fixing various operational issues that come up during pager duty

Software Engineer, ForAllSecure **2021 – 2022**

Worked independently and as part of short-term & rapidly evolving teams to design, build, and maintain various services such as GitHub OAuth, Mayhem Badges necessary to bring Mayhem—a fully autonomous cybersecurity system—to market and aimed at enabling users easily integrate Mayhem into their existing CI/CD pipelines and reducing customer onboarding times.

- Optimized queries associated with defect reporting endpoints to decrease page load times by 24% Built a reporting dashboard using Postgres, SQLAlchemy & React (reCharts) to provide easily consumable insights and increase engagement with non-developer users of the Mayhem platform
- Continuously & actively improved internal testing infrastructure using pytest fixtures to increase reusability & test coverage by 8%
- Refactored database garbage collector queries to minimize the number of test cases stored in database & provide faster test suite download and regression testing times for customers

Junior Backend Engineer, Pivony **2020 – 2020**

Architected a distributed AWS native topic modeling platform to efficiently process and summarize textual data, identify trends such as sentiment, common complaints, influential documents, most frequent keywords, and deliver actionable insights.

- Built a preprocessing micro service using SQLAlchemy, Docker, and Dask to provide multilingual sentiment analysis, text tokenization, & keyword extraction; optimized the service using multithreading resulting in a 55% decrease in billable EC2 instance hours
- Created an AWS resource orchestrator using boto3, SQLAlchemy, and Postgres to optimize resource allocation and eliminate idle EC2 instances
- Researched and developed a topic modeling engine utilizing BERT and various unsupervised algorithms such as LDA & GSDMM to cluster text into human readable topics at scale
- Designed and implemented a RESTful API to provide a universal gateway to various micro services using nginx, Flask, SQLAlchemy, and AWS RDS

EDUCATION

Computer Science, BA, Reed College **2015 – 2020**

- **Thesis** : Scalable Learning for the Odd-Man-Out Task with Applications to Word Vector Induction

Study Abroad, Informatics **2017 – 2018**

PROJECTS

mok **2020 – Present**

- A pseudo-random data file [CSV, JSON, Parquet, XLSX] generator package written in Python

flask_rl **2021 – Present**

- An open source Flask extension to perform sliding window rate limiting based on request IP address