ABENEZER MAMO

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

TECHNICAL SKILLS

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

EXPERIENCE

Software Engineer, Klaviyo **2022 – Present**

Building various features necessary to ensure messages sent by clients get sent through the right channel and are delivered via the right platform, with an emphasis on internal and external delivery enablement. In addition, collaborating radically to contribute to various projects aimed at providing a scalable and high performance sending experience both on the front and backend using tools such as React, Django, RabbitMQ, and Redis.

- Working in a team and various stakeholders across the company to build and manage Klaviyo's customer facing SMS service (with an emphasis on delivery enablement)
- Learning about the full software development lifecycle from problem definition to design, development, testing, demoing, and supporting features in production
- Building an internal & easily cuztomizable account information report generator & visualizer using vaex, React, Django & MySQL
- Working on internal tooling such as docd - a python CLI that leverages ASTs to autogenerate documentation / docstrings placeholders to increase internal code readability
- 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 bring Mayhem – a fully autonomous cybersecurity system – to market. Responsibilities included but were not limited to designing, building, and maintaining various services and features such as GitHub OAuth and sharable badges, aimed at enabling easy integration into existing CI/CD pipelines and shortening customer onboarding journeys.

- 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, TXT] 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