

# BENSON MUGURE

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## SUMMARY

Software Engineer with experience designing and operating cloud-native backend systems, asynchronous processing pipelines, and data platforms on AWS and GCP. Proven track record of delivering scalable, cost-efficient systems using Python, distributed task orchestration, and infrastructure as code in production environments.

## WORK EXPERIENCE

### Software Developer

June 2024 - Present

**STORM Guidance** – Saint Pierre, Moka, Mauritius

- Architected and deployed a serverless threat-intelligence pipeline (“Project Loki”) using AWS Lambda, EventBridge, and SNS, automating daily dark-web scans and saving 200+ engineering hours annually while improving time-to-detection.
- Led the migration of a legacy platform to a containerized microservices architecture using Django, Docker, and Celery on AWS EC2, enabling scalable multi-tenant subscription management and reducing API latency by 40%.
- Decoupled resource-intensive monolithic services into a serverless FaaS architecture (AWS Lambda), optimizing compute usage and achieving a 15% reduction in monthly cloud infrastructure costs.
- Engineered a fault-tolerant report validation system with feature-flagged rollbacks and automated threshold monitoring, reducing false positive alerts by 60% and ensuring 99.9% report accuracy.
- Established production-grade engineering workflows by implementing CI/CD pipelines (GitLab), automated staging–production parity, and AI-assisted code reviews, reducing deployment failures by 50%.
- Implemented end-to-end observability using CloudWatch dashboards and custom metrics, reducing Mean Time to Detection (MTTD) of production incidents by 50% and improving system reliability.

**Tech Stack:** AWS, Python, Django, PostgreSQL, Celery, Gitlab, Docker, Sentry

### Software Engineer

February 2023 - November 2023

**Multiply Labs Ltd** – Grand Baie, Mauritius

- Refactored legacy Python 2.7 codebase to Python 3.9, resolving 200+ concurrency bottlenecks and reducing technical debt by 40%.
- **Tech Stack:** PostgreSQL, Flask, Prometheus, Grafana, Sentry, Bitbucket, SQL, SQLAlchemy

## PROJECTS

### Frisque | AI-Powered Due Diligence Platform

June 2025 - July 2025

- Architected an event-driven, asynchronous AI pipeline using Django, Celery, and RabbitMQ to orchestrate autonomous agents for venture-capital due diligence, parallelizing research workflows and reducing analysis turnaround time by 70% in a two-engineer team.
- Deployed a containerized, production-grade infrastructure on GCP using Docker and Terraform (IaC), enabling reproducible environments, scalable background processing, and reliable delivery of multi-agent workflows.

### LinkedIn Job Posts Insights | Data Engineering

April 2025

- Architected a cloud-scale ELT pipeline on GCP using Apache Airflow and BigQuery to ingest and process unstructured job market data, enabling analytics-driven insights at scale.
- Optimized warehouse performance through BigQuery partitioning and clustering, reducing query costs by 40% and improving dashboard retrieval latency.

## EDUCATIONAL BACKGROUND

**Glasgow Caledonian University**

Graduated December 2024

Bsc (Hons) Computing, First Class Honors

**Certifications:** AWS Certified Solutions Architect - Associate, Software Engineering (Holberton School)