

Aryan Mike Binazir

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Experience

Fortress Information Security

Oct 2023 – present

Senior Software Engineer (Apr 2025 – Present)

- Architected and led Python-based backend development for AI Monitoring platform, delivering 90% cost reduction in risk management through high-performance, scalable TPCRM systems supporting critical infrastructure security.
- Led comprehensive backend rewrite for shared platform supporting 3 company products, implementing TypeScript for strong type safety and asynchronous queuing to offload long-running processes, delivering reliable performance and highly responsive frontend experiences.


Software Engineer (Oct 2023 – Apr 2025)

- Developed internal automation tool using Go and Bash that reduced local developer environment setup time from 2 hours to 15 minutes, accelerating onboarding and boosting developer productivity.
- Built full-stack Vulnerability Management application from alpha to production-ready state, reducing MongoDB data transfer by 50% through optimized database projections, securing authentication by upgrading vulnerable packages, and delivering new features across Node.js and React.js stack.

Co-Creator, Software Engineer, Triage

Aug 2022 – Sep 2023

Triage is an open-source proxy for Apache Kafka that addresses head-of-line blocking from poison pill messages and non-uniform consumer latency. It enhances parallel consumption.

- Led core development using Go, gRPC, and AWS (Fargate/ECS), leveraging Go channels and goroutines for high-concurrency message processing and implementing DynamoDB dead-letter store for poison pill message handling.
- Built supporting ecosystem including thin client library, Node.js CLI tool (npm package), Docker containerization, and automated AWS CDK infrastructure deployment.
- Delivered 10x improvement in connections per Kafka partition through parallel consumption architecture.
- Authored technical case study showcasing Triage, available at team-triage.github.io/case-study .

Software Engineer, Open-Source Projects

Aug 2020 – Jul 2022

- Built multiple open-source projects including Request Djinn, a webhook inspector enabling developers to receive and analyze webhook payloads during testing and development, using TypeScript, Express, PostgreSQL, and other web technologies.

Start-Up Experience & Real Estate Investments

Jan 2011 – Jul 2020

- Performed investment due diligence for an African start-up merchant bank and built a real estate portfolio.

Skills

Go | **JavaScript/TypeScript** | **Python** | **Node.js** | **React.js** | **Cloud** — AWS EC2, AWS ECR, AWS Fargate, AWS CDK, AWS S3, AWS DynamoDB | **Databases** — SQL, NoSQL, PostgreSQL, MySQL, MongoDB, Redis | **Mongo Aggregations** | **REST APIs** | **Docker** | **Testing** — Unit Tests, Integration Tests, Regression Tests | **Agile Methodologies** | **Systems Design** | **Linux** | **Microservices** — Event-Driven Architectures, Message Queues, Apache Kafka | **HTML/CSS** | **Git/Github** | **CI/CD** | **Infrastructure as Code** — Terraform, CDK, CloudFormation | **HTTP** | **gRPC** | **Serverless** | **Nginx** | **Bash**

Education

M.B.A., University of Pretoria/Gordon Institute of Business Science

2012

B.S. in Computer Science, University of the Witwatersrand

2009