




# MICHAEL BOATENG

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## Work Experience

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### Tech Innovation

August 2025 – Feb 2026

*Backend Engineer*

*Accra, Ghana*

- Architected and deployed **Node.js/Express** backend for mobile gas delivery platform, enabling a local gas station to expand customer reach and generate new revenue streams
- Designed multi-tenant database schema and **RESTful APIs** for business suite software, restructuring backend architecture to support **multiple clients** versus single-client deployment, enabling the company to scale revenue
- Owned end-to-end backend development and deployment for both platforms, reducing development time by **40%** through reusable API patterns and automated deployment pipelines

### Maxim Nyansa IT Solutions

Sep 2021 – Sep 2025

*Cloud Engineer*

*Accra, Ghana*

- Architected and deployed **Python Flask** microservices on **Google Cloud Run** integrated with **Workflows**, **Pub/Sub**, and **BigQuery**, automating weekly processing of **50,000+ products** from major European retailers, reducing manual processing time by **80%**
- Built fully automated **Infrastructure-as-Code** pipeline using **Terraform** and **GitHub Actions**, enabling developers to provision reproducible GCP environments in **15 minutes**, ensuring features are tested in isolation before production deployment
- Engineered full-stack QA validation platform using **React** and **Django REST APIs**, enabling QA engineers to validate nutritional recommendations against client allergies and dietary restrictions before production deployment
- Taught **40+ software engineers and data scientists** across 2 cohorts in **Python programming language**

## Projects

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**Escape Tutorial Hell** | *Live Demo* | *GitHub*

**React** | **FastAPI** | **AWS** | **AI**

- Developed and deployed a full-stack web application that converts coding tutorials into interactive learning artifacts, enabling learners to move from passive watching to active implementation
- Designed an event-driven serverless pipeline processing video tutorials through multi-stage AI workflow, reducing content generation time by **75%** through parallel Step Functions orchestration
- Implemented production-grade retry mechanism with job-level status tracking, achieving **95%** eventual success rate through targeted re-execution without full workflow replay
- Deployed Infrastructure-as-Code using modular **Terraform** managing **Lambda**, **Step Functions**, **S3** presigned uploads, and **CloudFront** CDN with proper IAM policies

## Technical Skills

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**Languages:** Python, JavaScript, TypeScript, SQL, HTML5, CSS

**Cloud & DevOps:** AWS (Lambda, Step Functions, S3, EventBridge, CloudFront), GCP (Cloud Run, Workflows, Pub/Sub, BigQuery), Terraform, Docker, GitHub Actions

**Frameworks & Tools:** Django, FastAPI, Node.js, Express, React, TanStack Router, Flask, MongoDB, PostgreSQL, Postman, Git

## Education

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**University of Ghana, Legon**

**July 2020**

*Bachelor of Arts in Computer Science with Mathematics*

*Accra, Ghana*