

# JOSHUA AGYEKUM | Software Engineer

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joshuaagyeekum21@gmail.com | +47 46399384 | Oslo, Norway (Permanent Residence + Valid Work Permit) | English (Fluent), Norwegian (B1)

LinkedIn: <https://www.linkedin.com/in/joshua-agyeekum>

GitHub: <https://github.com/Kofijoo>

Portfolio: <https://kofijoo.github.io/myresume.github.io/>

## PROFESSIONAL SUMMARY

Software Engineer with hands-on experience deploying scalable infrastructure and high-performance applications using AWS, Docker, Kubernetes, Terraform and CI/CD pipelines. Adept in system automation, microservices architecture, and observability tooling. Demonstrates a strong test-first mindset and commitment to engineering best practices. Quick learner with a solid foundation in backend development, containerization, and distributed systems.

## KEY ACHIEVEMENTS

### Infrastructure & Performance:

- Reduced deployment time by 60% through automation playbooks
- Achieved 99.9% uptime through proactive monitoring and optimization
- Built production system processing 18,000+ sanctions entries with sub-second screening
- Optimized response times to <100ms using FTS5 search optimization

### Development & Innovation:

- Built full-stack applications with modern tech stacks (React, Node.js, Python)
- Implemented AI-ready forecasting with smart segmentation algorithms
- Created reusable YAML templates for CI/CD workflows
- Developed microservices architecture with comprehensive observability

## TECHNICAL SKILLS

Programming Languages: Java, Python, Go, R, Bash, JavaScript/Node.js, SQL, HTML

Cloud & Infrastructure: AWS (EC2, S3, RDS, VPC, IAM, CloudWatch), Docker, Kubernetes, Terraform, Ansible

CI/CD & DevOps: GitHub Actions, GitLab CI/CD, Jenkins, GitOps, SonarQube, Trivy, Helm

Databases: PostgreSQL, MySQL, SQLite

Frameworks & APIs: FastAPI, REST APIs, React, Prisma

Monitoring & Observability: Prometheus, Grafana, CloudWatch, Fluentd

Messaging & Architecture: Kafka, Redis, Microservices Architecture

Systems: Linux (Ubuntu, CentOS), Windows Server, NGINX

## PROFESSIONAL EXPERIENCE

### **DevOps Engineer (Part-Time) | JOMACS Academy (Canada) | 2024–Present**

- Automated cloud server provisioning using Bash and Terraform
- Deployed containerized apps with Docker and Kubernetes across multiple environments
- Developed CI/CD workflows using GitHub Actions with reusable YAML templates

### **Operations Associate (Part-Time) | Wolt Market Center, Oslo | 2024–2025**

- Inventory Management & Stock Replenishment
- Customer Service Excellence, order Fulfillment & Quality Control

### **EdTech Developer | ALO7 Education, Ningbo, China | 2020–2021**

- Designed digital STEM content and interactive tools for virtual classrooms
- Supported online engagement strategies using data-driven content
- Collaborated across departments to enhance platform usability and system design

## KEY PROJECTS

### **SLST - Sanctions Screening Tool | Tech Stack: FastAPI, Python, NLP, Advanced Algorithms**

- Production-grade compliance screening system processing 18,000+ sanctions entries from OFAC, UN, HMT, and EU sources
- Built with FastAPI and advanced NLP for sub-second screening with automated BLOCK/ESCALATE/CLEAR decisions

- Delivers enterprise-grade performance with full audit trails and regulatory reporting capabilities

[CRM Opportunity Tracker](#) | Tech Stack: React, Node.js, PostgreSQL, Prisma, Python, Vercel

- Built full-stack CRM simulation tool for lead management and customer lifecycles
- Implemented AI-ready forecasting logic with win-rate analysis and smart segmentation
- Integrated timeline views, renewal tracking, and interactive dashboards

[Microservices Deployment on Kubernetes](#) | Tech Stack: Kubernetes, Prometheus, Grafana, Redis, Go, Java, Node.js, Python

- Deployed Google Cloud's Online Boutique microservices architecture locally
- Implemented modular YAML manifests with readiness/liveness probes
- Set up full observability with Prometheus/Grafana monitoring dashboards

[CI/CD Automation & Cloud Deployments](#) | GitHub Actions, AWS EC2/S3, SonarQube, Trivy

- Designed secure CI/CD pipelines for Python apps and static websites
- Integrated security tools like SonarQube and Trivy for code scanning
- Handled AWS IAM permissions and CloudFront cache invalidation

[Customer Risk Scoring Dashboard](#) | Tech Stack: Python, Data Analytics, Risk Assessment

- Built comprehensive risk scoring system for customer assessment
- Implemented data analytics and visualization for risk metrics
- Created interactive dashboard for real-time risk monitoring

## EDUCATION

**MSc – Educational Technology | Huzhou University, China | 2019–2022**

Focus: AI/NLP/Deep Learning, Computer Vision

**MSc – International Relations | Norwegian University of Life Sciences, Norway | 2022–2024**

Courses: Economy, R Programming & Research Methods

**BSc – Education Technology | University of Education, Winneba, Ghana | 2014–2018**

Courses: ICT, Python, Data Tools

## **CERTIFICATIONS**

W3Schools (2023–2025): Python Developer, R Developer, SQL Developer, Git Practitioner, Backend Developer with Python, HTML Developer, Data Scientist, MySQL Developer, Excel Practitioner

Cisco / Linux Foundation (2025): Linux Essentials, Linux Unhatched, Introduction to Linux (LFS101), Computer Hardware and Networking, Operating Systems Basics

AWS & Cloud: AWS Cloud Essentials, AWS Educate Introduction to Cloud 101

Professional Development: Power BI Essential Training, Project Management Foundations, ServiceNow IT Leadership, Operations Management, Atlassian Agile Project Management

## **ADDITIONAL INFORMATION**

Portfolio: <https://kofijoo.github.io/myresume.github.io/>

Certifications: <https://www.credly.com/users/joshua-agyekum.7b55a7d0/badges> | <https://www.w3profile.com/kofijoo/>

GitHub: <https://github.com/Kofijoo>