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Personal Statement

Business Automation Specialist with 4+ years' experience in university technology services, specializing in CI/CD pipelines, automated testing, and Agile development. Proven expertise in designing and deploying scalable workflow automation systems using modern DevOps practices. Using technical leadership and process optimization skills to drive Nestlé's digital transformation initiatives.

Work Experience

KNUST UITS

Software Developer

Kumasi, Ghana

Sep 2022–Present

- Implemented CI/CD pipelines using Jenkins and GitLab CI for 6+ university systems, reducing deployment time by 40%
- Developed automated testing frameworks (Jest/Mocha) covering 85%+ of critical codebases
- Led Agile Scrum teams in bi-weekly sprints for student case management system serving 25k+ users
- Containerized applications using Docker, improving deployment consistency across environments
- Automated infrastructure provisioning on the database servers templates

KNUST UITS Services

Web Developer

Kumasi, Ghana

Dec 2020–Aug 2022

- Migrated legacy systems to microservices architecture with automated blue/green deployments
- Implemented automated monitoring and alerting system reducing incident response time by 35%
- Developed API test automation suite covering 200+ endpoints with Postman/Newman

NUPS-G KNUST

Lead Developer

Kumasi, Ghana

May 2019–Nov 2020

- Introduced GitFlow workflow with automated build pipelines
- Implemented automated UI testing using Selenium for student portal

Automation Projects

Student Case Management System

- **Agile:** Managed 2-week sprints for workflow automation system
- **CI/CD:** Containerized application with automated security scanning
- **Tech:** Role-based access, audit logging, real-time dashboards

Data Imprint Generator

- **Automation:** Web data extraction tool with automated validation algorithms
- **Testing:** Implemented 100+ unit/integration tests (Jest and Mocha)

KNUST Help Desk System (CI/CD Focus)

- **DevOps:** Implemented a Jenkins CI/CD pipeline with automated testing and deployment to Ubuntu servers using systemd-managed services.
- **Automation:** Reduced support resolution time by 40% through automated ticket routing

- **Tech:** Docker, AWS, Node.js, React

Technical Skills

Languages: JavaScript (ES6+), Python, Node.js, PHP

Automation: Jenkins, GitLab CI, Docker, gitlab CI/CD

Testing: Jest, Mocha, Postman

Cloud/DevOps: AWS, Docker, Kubernetes, Git, Azure DevOps

Frameworks: React, Express.js, Laravel, MERN Stack

Databases: MySQL, MongoDB, PostgreSQL

Education

KNUST

MPhil Computer Science

Specialization: Software Engineering

Kumasi

2023–2025

KNUST

BSc Computer Science

Second Class Upper Honors

Kumasi

2017–2021

Certifications

DevOps: AWS Certified DevOps Engineer - Professional (In Progress)

Automation: Udemy: CI/CD Mastery with Jenkins and Docker

Agile: Professional Scrum Master I (PSM I) Certification