# Samson Kinyanjui

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## SUMMARY

- Software Engineer with hands-on experience in Python, Java, Node.js, and cloud-based applications (AWS, Azure). Skilled in troubleshooting, system monitoring, and CI/CD pipelines with GitHub Actions and Docker. Strong background in customer-facing support, issue diagnosis, and collaboration with development teams to deliver reliable, high-quality solutions.

## SKILLS

- **Languages & Frameworks**: Java, Python, Node.js, JavaScript, Express, Flask, Next.js

- **Web Services**: REST, GraphQL

- **Databases**: MySQL, MongoDB (SQL/NoSQL)

- **DevOps & Cloud**: AWS (EC2, S3, Lambda, EKS), Azure, Docker, Kubernetes, Terraform, GitHub Actions, CI/CD pipelines

- **Monitoring & Logging**: Prometheus, Grafana, CloudWatch

- **Tools**: Git, Linux

- **Soft Skills**: Problem-solving, Troubleshooting, Communication, Teamwork, Adaptability

## EDUCATION

- **Dedan Kimathi University of Technology** — Nyeri, Kenya
  *Master of Science in Computer Science* — *Oct. 2023 – Present*

- **Dedan Kimathi University of Technology** — Nyeri, Kenya
  *Bachelor of Science in Information Technology* — *May 2019 – Apr. 2023*

## EXPERIENCE

- **Freelance Software Engineer (Full Stack & DevOps)** — Remote
  *Jan 2022 – Present*
  - **Troubleshooting & Support**: Diagnosed and resolved recurring system issues for client applications, reducing downtime by 30%. Provided direct technical support and customer-facing guidance.
  - **Incident Management**: Prioritized and resolved incidents under tight SLAs, escalating issues when necessary to maintain service reliability.
  - **System Monitoring**: Implemented dashboards with Prometheus, Grafana, and CloudWatch, enabling proactive detection of issues before escalation.
  - **Deployment & CI/CD**: Automated deployments using GitHub Actions, Docker, and Kubernetes on AWS EKS, reducing release time by 40%.
  - **Cloud Infrastructure**: Provisioned and managed scalable infrastructure using AWS (EC2, S3, Lambda) and Terraform.
  - **Full Stack Development**: Designed and deployed responsive apps using React, Node.js, Django, and Flask.
  - **API Engineering**: Developed and integrated RESTful and GraphQL APIs for client-server data exchange.
  - **Machine Learning**: Built and deployed ML pipelines, including data preprocessing, feature engineering, and hyperparameter tuning.

- **Graduate Research Assistant** — Dedan Kimathi University of Technology, Nyeri, Kenya
  *Oct 2023 – Present*
  - **Student Labs**: Guided students through ML labs, assignments, and practical sessions.
  - **Deep Learning Projects**: Assisted students in CNN/RNN/Transformer-based implementations.
  - **Data Preprocessing**: Taught data cleaning, augmentation, and feature engineering.
  - **Optimization Techniques**: Reviewed student models and improved performance via tuning.
  - **Presentation & Teaching**: Explained concepts to technical and non-technical audiences.

## Projects

- **Kenyan Business Ideas & Investment Bot**: Built an ML-powered chatbot with React frontend and Flask backend, fine-tuned for Kenyan economic data. `View Project`

- **Campus Part-time Jobs**: Developed a Django-based web app for connecting students to campus jobs like academic theses. `View Project`