

# Bryson Nyamwange

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## PROFESSIONAL SUMMARY

I'm a software engineer with experience in developing web, and desktop applications and I'm passionate about leveraging innovative technology in Artificial Intelligence and Machine Learning. I'm also proud to have graduated in the top 5% of the ALX Tech program and selected for the Gold Fellowship program at The ROOM.

## PROFESSIONAL EXPERIENCE

### Software Engineer, Kitrel LLC

Sep 2023 - Present

- Designed and implemented CI/CD pipelines using GitOps-based deployments with tools such as Bitbucket Pipelines, GitHub Actions, and ArgoCD streamlining application delivery and reducing deployment times considerably.
- Strategically managed AWS cloud infrastructure, optimizing cost and enhancing security measures.
- Ensured high availability and system performance by setting up observability tools like Prometheus and Grafana for real-time monitoring and alerting on key performance metrics.
- Experience with SQL and NoSQL databases, enhancing database management capabilities, and supporting application performance.
- Effectively collaborated with cross-functional teams to enhance software lifecycle efficiency and security.
- Developed reusable Infrastructure as Code (IaC) modules using Terraform and AWS-SDK, enabling efficient, consistent, and scalable infrastructure provisioning across multiple projects.
- Pioneered Docker containerization initiatives, significantly improving application scalability and deployment reliability with Kubernetes and Helm.
- Participated in architecture design and implementation for cloud and on-prem applications.

### Software Engineer, Badili Innovations

May 2023 - July 2023

- Designed and developed an online portal to host multi-lingual disease manuals in English and Swahili using internationalization in React and Django.
- Embed a rich text editor on the portal to enable editing of the manuals, making it easy for users to edit and add manuals.
- Developed an API for 3rd party applications used to retrieve the manuals and expose them to the user through the Web. The API also ensured they were accessible to Mobile applications and Machine learning models.

### Software Engineer (Test), Stax

Oct 2022 - April 2023

- Conducted comprehensive user experience testing on the app's beta release, identifying and reporting critical bugs that enhanced overall user satisfaction and streamlined navigation.
- Conducted automated and manual tests on the Stax App that helped eliminate bugs that had not been identified, improving the app's performance and usability.
- Tested new releases for bugs which helped make the app user-friendly and secure.

### Technical Mentor, Andela, ALC With Google

June 2021 – Feb 2022

- Collaborate with learners and peers on their web development journey by engaging with them and offering guidance on various areas in Angular and Nodejs.
- Worked closely with candidates to oversee their project journey.

#### **Team Lead, Build for SDG Project**

**August 2020 - October 2021**

- Collaborated with seven developers to develop frontend and backend features for focus groups in order to meet their unique financial needs.
- Managed administrative duties including conducting meetings throughout the development stage.
- Developed a working prototype of the COVID-19 Estimator in a bid to solve the healthcare challenges posed by the Pandemic.

#### **Intern, National Treasury, and Planning**

**Jun 2019 - Sep 2019**

- Collect, analyze, and present data to support policy priorities
- Research and summarize academic literature and news related to mission areas
- Contribute to key management functions and initiatives, such as budget formulation, strategic planning, and organizational performance evaluation

### **EDUCATION**

**Udacity Nanodegree, Cloud DevOps**, DevOps and Cloud Engineering, Nov 2022 - March 2023

**ALX Software Engineering Track**, Software Engineer, Feb 2022 - March 2023

**Google Africa Developer Scholarship (GADS)**, Web Developer June 2021 – Feb 2022

**Technical University of Kenya**, BSc. Mathematics

### **PROFESSIONAL SKILLS**

**Languages:** Python, JavaScript, SQL, Typescript

**Frameworks:** Django, Node.js, Express

**Cluster Management:** Kubernetes

**System integrations** using Kafka messaging

**Caching:** Redis

**Tools and Others:** Git, GitHub, GraphQL, Docker, AWS, GCP, CircleCI, Terraform, Helm, MySQL, MongoDB, Kustomize, Cloud formation, Linux, Load Balancing, Web Servers like Apache, nginx

### **PROJECTS**

[Personal website](#) For any additional information and projects

[Farming Assistant](#) Fullstack application built using React, Node, Express, and MongoDB.

[Deploy a Microservice](#) - Deploy a machine learning application using Kubernetes.

[Build CI/CD pipeline, Monitoring & Logging](#) - Implement a CI/CD pipeline, perform a blue-green deployment, perform monitoring using Prometheus and Grafana & infrastructure automation using Ansible.