

Bruce Bainomugisha

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Skills

Frontend Development: HTML5, CSS3 (SCSS/SASS, Tailwind, Bootstrap), JavaScript (ES6+), TypeScript, React, Next.js, Vite, Redux/Zustand, AJAX/Fetch/Axios, Accessibility, Performance Optimization

Backend Development: Node.js/Express.js, Python/FastAPI, PHP/Laravel, REST API design, C++

Databases & Administration: SQL (MySQL, PostgreSQL, SQLite, SQL Server), NoSQL (MongoDB, Firebase), ORMs (Prisma, Sequelize), Database design & optimization, phpMyAdmin

Cloud & DevOps: AWS (EC2, Lightsail, S3, Route 53), CI/CD (GitHub Actions, GitLab CI, Jenkins), Nginx/Apache, Git/GitHub/GitLab

Machine Learning & AI: Scikit-learn, XGBoost, LightGBM, MLlib (Spark), AWS SageMaker

Data Analysis: Python (pandas, NumPy), Microsoft Excel, Jupyter, Google Colab

Business Intelligence & Data Visualization: Power BI, Tableau, Matplotlib, Seaborn, Plotly

Data Mining & Warehousing: BeautifulSoup, Docker

Data Engineering & Processing: Apache Spark, Dask, Airflow

Orchestration: Kubernetes

Big Data & Streaming: Hadoop, Hive, HDFS, Kafka, Google BigQuery

Tools & Miscellaneous: npm/yarn/pnpm, Webpack/Vite/Parcel, Postman/Insomnia, Jest/RTL/Cypress, Figma/Adobe XD, Web security basics (JWT, OAuth2), Automated testing (unit, integration, e2e)

Experience

Software Developer

KaCyber Technologies – Kampala, Uganda

July 2025 to Present

We focus on building and maintaining digital ticketing, payment systems, and apps to streamline public transport for operators and commuters.

System Developer & Data Analyst

Osela Technologies - Kampala, Uganda

September 2023 to October 2024

We used Microsoft Excel and Microsoft SQL Server Management Studio to analyze customer data, and create reports regarding ERP systems.

Junior Back-End Developer

Maniflex Ltd - Kampala, Uganda

July 2020 to August 2021

This was my internship year, we mainly focused on Web Development projects.

Publications

Mining ERP System

A modern, modular ERP web application for mining operations, built with **Next.js, PostgreSQL**.

SaaS System

A comprehensive multi-tenant SaaS platform with automated tenant provisioning, offline-first mobile app, and role-based access control. Built with Next.Js, **Flutter**.

BTC Forecast Model

For this project, I used **TensorFlow** and **Scikit-Learn** to create a model for predicting future Bitcoin prices and trends. I loaded the model to a **Flask API**.

Employee Statistics Database

I utilized **MSSM Studio** and used multiple **Joins, Common Table Expressions, Stored Procedures, and Temporary Tables** for making later visualizations

Bicycle Sales Analysis

I started off with cleaning and arranging this data using **Microsoft Excel's** in-built **functions**, I then created a number of **pivot tables** that helped me to visualize the data with **slicers**.

Education

Bachelor's degree in Software Engineering

Makerere University – Uganda

August 2019 to 2023

References

ASP Tunanukye Eric – Regional Staff Officer, Uganda Police North Kyoga Region

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Mr. Innocent Orikiiriza – CEO, KaCyber Technologies

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Mr. Turyatunga Richard – Manager Human Resources, Public Procurement and Disposal of Public Assets Authority (PPDA)

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Mr. Elkanah Momayi – CEO, Osela Technologies Ltd.

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Certification Awards

Web Development, Python & SQL MiMo Certificates

Given to me after the completion of the Python Programming Course, Web Development (with HTML, CSS, and JavaScript), as well as the MySQL Course.

Objectives

- I have a dream, and a long-term vision of leaving a lasting positive impact on my community, as well as everyone that I'll be able to meet with.
- I have confidence in my ability to thrive under pressure, in addition to my strong enthusiasm for taking on new challenges.
- I have a great desire in taking on extra responsibilities and working extra hours to ensure successful project completion.
- I also admire my ability to bounce back from setbacks, and adapt to changing circumstances while maintaining a positive attitude.