# KABUNGA CHARLES

## SOFTWARE DEVELOPER & NETWORK SECURITY SPECIALIST

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## PROFESSIONAL SUMMARY

Computer Science student at Mbarara University of Science and Technology with hands-on experience building full-stack applications in Python, Flutter, and FastAPI. Actively developing a foundation in network security and cybersecurity through ongoing coursework and certifications. Motivated by open-source collaboration and continuous learning, with a track record of shipping real projects — from AI-powered platforms to business management systems.

## TECHNICAL SKILLS

- **Languages & Frameworks:** Python, JavaScript, Dart, Flutter, FastAPI, Node.js, HTML, CSS
- **Databases & Cloud:** PostgreSQL, MySQL, Firebase, Relational Database Design, SQL Optimization
- **Backend & Security:** RESTful APIs, Systems Integration, Network Defense (Cisco), Cryptography Basics, Linux (Linux Mint/Bash)
- **Core CS Foundations:** Data Structures & Algorithms, Dynamic Programming, Object-Oriented Design, AI Integration

## EDUCATION

**Bachelor of Computer Science** **Expected Graduation: 2028**

*Mbarara University of Science and Technology — Mbarara, Uganda*

- Relevant Coursework: Advanced Data Structures & Algorithms, Network Security, Database Management Systems, Operating Systems, Linear Algebra for AI.

## CERTIFICATIONS

**Network Defense Course** (In Progress) — *Cisco Networking Academy*
*Practical focus on network security principles, threat detection, infrastructure defense, and operational security.*

**Foundations of Backend Development** (Completed) — *Betechified*
*Trained in server-side program architecture, API integration, database design, and backend logic development.*

**Introduction to Cybersecurity** (Completed) — *Cisco*
*Covered core cybersecurity concepts, threat landscapes, and foundational defense practices.*

**Introduction to Blockchain** (Completed) — *Cyfrin*
*Covered blockchain fundamentals, smart contract concepts, and decentralized systems.*

**Python Programming (Matplotlib and NumPy)** (Completed) — *MUST Programming Bootcamp Cohort*
*Applied Python for data analysis and visualization using Matplotlib and NumPy.*

## PROJECTS

### CampusNova

*Technologies: Flutter, Dart, FastAPI, Python, PostgreSQL, REST APIs, AI*

- Developed an AI-powered student learning and academic support platform designed to organize academic resources and deliver personalized study assistance.
- Built features including AI-driven academic conversations, PDF and document processing, and centralized student resources.
- Architected a foundation for personalized learning, actively scaling the system toward production readiness.

### Quick Marble & Granite Management App

*Technologies: Flutter, Dart, Firebase, Backend Services*

- Engineered a cross-platform business management application to digitize operations for a specialized marble and granite enterprise.
- Structured modules for client onboarding, quotations, digital contracts, multi-office management, user roles, real-time notifications, and PDF report generation.
- Implemented complex quotation engines calculating supply, installation, labor costs, and VAT to replace manual business workflows.

### Standard Hill Website

*Technologies: HTML, CSS, JavaScript*

- Designed and deployed a modern, fully responsive web interface for organizational presence and client outreach.
- Focused on accessibility, clean UI layout, interactive contact pathways, and converting business requirements into a functional web application.

## LEADERSHIP & COMMUNITY

- Student Peer Mentorship — Guided peer tech initiatives, mentored junior students in core computing topics, and supported academic orientation.
- Developers Leader — Led collaborative developer circles, facilitated technical discussions, and coordinated open-source software building.
- Collaborator — Engaged in technical research groups, multi-developer projects, and open-source contributions.