CURRICULUM VITAE

SAMUEL ALBERT MWAI

NATIONALITY: KENYAN

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Career Objectives

To leverage my technical expertise and problem-solving skills in a dynamic and challenging role within an innovative organization. I am committed to delivering impactful technology solutions while maintaining integrity and excellence in my work. As a highly adaptable and quick learner, I aim to drive business growth through innovative technology solutions and digital transformation.

Summary of qualifications

ACADEMIC

2024-2025:   Full Stack Web development at eMobilis.

Qualification: Certified Full Stack WebApps Developer.

2020-2024:   BSc in Information Technology -University of Embu.

Qualification: Bachelor's Degree.

2016-2019:   Njiiri School.

Qualification: Kenya Certificate of Secondary Education.

2008-2015:   Highcrest Preparatory School.

Qualification: Kenya Certificate of Primary Education.

PROFESSIONAL TRAINING

2016: Studied computer and engineering studies for four years in high school.

2020: Furthered studies in computer and electronics engineering and mechanism.

2024: Full stack web-apps development.

Throughout my education, I have worked on various personal, group and client IT projects, refining my technical skills and problem-solving abilities.

Websites (Freelance / Agency Work)

Designed, developed, and deployed a variety of websites for clients, including:

- Client Portfolios – Built visually appealing personal and business portfolios.
- E-commerce Websites – Implemented secure payment gateways, product management, and order tracking.
- Business Landing Pages – Created responsive and SEO-optimized landing pages.
- Full-Stack Applications – Developed authentication-based systems with integrated databases.

Tech Stack: HTML, CSS, JavaScript, React, Next.js, Node.js, Tailwind, Django, PostgreSQL, Firebase, REST APIs.

Web Applications (Personal / Major Project: UniCircle)

Founder & Lead Developer of UniCircle – an all-in-one EduSocial platform for students.
Key Features:

- Student Social Hub – Enables students to interact via private chats, group chats, and mini-class chats.
- Live Learning & Discussions – Supports video calls, real-time Q&A, and live document collaboration.
- Academic Utilities – Includes a calculator, converter, dictionary, translator, and resource-sharing tools.
- Global Book Search – Allows access to articles, books, and study materials across multiple sources.
- Secure Authentication – Integrated OAuth, Firebase Auth, and role-based access control.

Tech Stack: React, Node.js, Firebase, PostgreSQL, GraphQL, WebSockets, Tailwind, Django.

Mobile Applications (Personal / Agency / Freelance / Work)

Actively involved in the full app lifecycle – from design, development, testing, deployment, and monitoring. Cross-Platform Mobile Apps built using Flutter & Dart.

- Navigation Management: Implemented GoRouter for seamless in-app navigation.
- State Management: Used BLoC for efficient state handling.
- Google Maps & Location Services: Integrated real-time mapping, geolocation tracking, and route planning.
- Speech-to-Text Features: Utilized voice commands and transcription for accessibility.
- API & Backend Integration: Connected apps to Firebase, REST APIs, and third party services.

Tech Stack: Flutter, Dart, Firebase, BLoC, GoRouter, Google Maps API, Speech-to-Text API.

Internet of Things (IoT) & Embedded Systems (Personal Project)

Digital Gate Pass & Attendance System
Built a real-time, RFID-based system for secure campus navigation and automated attendance tracking.
Key Features:

- RFID-Based Identification – Students tap RFID cards at gates and class entrances for seamless authentication.
- Automated Attendance Logging – Instantly records student entry and exit times.
- Live Data & Backups – All logs are dynamically updated and backed up in real-time.
- Admin Integration – Fully linked to the school portal for lost card management and user control.

Tech Stack: Arduino, ESP32, RFID, Python (Flask), Firebase, MQTT, IoT Cloud Platforms.

IT Support & System Administration (Work Experience)
Provided technical support for IT infrastructure, network security, and system administration.
Key Responsibilities:

- Troubleshooting hardware, software, and network issues.
- Maintaining LAN, Wireless Networks, and Intranet services.
- Ensuring seamless IT operations through system monitoring and security checks.
- Active Directory (AD) User Management & Scripting – Automated admin tasks using PowerShell scripts.

Tech Stack: Windows Server, Active Directory, PowerShell, Linux (Ubuntu), Networking Protocols.

Skills and Abilities

Development Skills:

- Web Development: HTML, CSS, JavaScript (React/NodeJs), Python (Django)
- Mobile Development: Dart, Flutter (Cross-Platform Apps)
- Design & Prototyping: Figma, Inkscape, GIMP
- Version Control & CI/CD: Git, GitHub, Github actions, CI/CD Pipelines
- Databases:
  - SQL: PostgreSQL, MySQL
  - NoSQL: MongoDB, Firebase Firestore
- APIs: RESTful APIs, GraphQL, Firebase
- Prototyping & IoT Development: Arduino, Espressif Systems, Raspberry Pi
- Deployment & Hosting: Vercel, Heroku, Netlify, Docker, CPanel, Google console
- Third-party APIs, authentication, packages and libraries integration

Linux Operating System Proficiency:

- Demonstrated expertise in utilizing Linux operating systems, including Ubuntu and Kali Linux.

- Configured and optimized server environments for enhanced performance and security.

- Managed user accounts, permissions, and file systems to ensure seamless operations.

- Shell scripting; Bash.

Networking Expertise:

- Designed and implemented robust network architectures using routers and switches.

- Deployed and maintained solutions for secure-remote and onsite internet access.

- Diagnosed and resolved network issues, minimizing downtime and improving network reliability.

Relevant Tools and Software:

- Development; Figma, Bootstrap, Tailwind, NodeJs, Django, Flutter Inkscape.
- Visual Studio Code for coding. Github for project collaboration and CI/CD.
- Linux distributions; Ubuntu, Kali Linux.
- Database; (SQL&NoSQL) PostgreSQL, MongoDB.
- APIs; RESTful APIs, GraphQL, Firebase

Interests

- **Technology & Engineering:** Exploring electronics, IoT, and systems automation
- **Sports & Well-being:** Badminton, cycling, and outdoor activities
- **Creative Design:** Passion for UI/UX design, digital art, and animation
- **Innovation & Problem-Solving:** Keeping up with emerging tech trends

Referees

Available upon request