

Curriculum Vitae

Ireri Linus Mugendi

github.com/linus-ireri linkedin.com/in/linus-mugendi

Professional Summary

Resourceful and motivated Mathematics and Computer Science student with hands-on experience in full-stack web development, data structures, authentication systems, and \LaTeX documentation. Actively building projects in Flask, Python, and data analysis. Certified member of the Kenya Cyber Security and Forensics Association (KCSFA). Passionate about leveraging AI, cybersecurity, and data science to develop secure, high-performance applications and solve real-world problems.

Certifications & Achievements

- Member, Kenya Cyber Security and Forensics Association (KCSFA)
- Chairman, Mathematics Club, Lenana School (2021–2023): Organized study sessions, peer mentoring, and competitions.

Technical Skills

- **Languages:** Python, Java, C, JavaScript, HTML, CSS
- **Web Development:** Flask, Bootstrap, API integration, UI design
- **Deployment:** Ngrok, PythonAnywhere, Render, Railway
- **Security Systems:** Three-way authentication using biometrics, ID, and facial recognition
- **Algorithm Design:** Data structures, pseudocode, flowcharts, time complexity
- **AI/Data Science:** Exploring Copilot, ChatGPT, Python ML libraries, model integration
- **Mathematical Tools:** Graph theory, statistics, finance, optimization
- **Documentation:** \LaTeX formatting
- **Soft Skills:** Critical thinking, leadership, teamwork, time management, adaptability

Projects

- **SaccoApp (Daima Sacco):** Flask-based homepage with UI refinement, debugging, and deployment testing.
- **FromLinoApp:** Custom interactive web app designed and deployed at lino-ai.onrender.com.
- **Three-Way Authentication System:** Collaborated on a biometric security system using facial recognition, ID, and fingerprint verification. Designed flowcharts and pseudocode for logic, applied data structures and algorithm principles, and documented the system using \LaTeX .

Education

Jomo Kenyatta University of Agriculture and Technology (JKUAT)

BSc in Mathematics and Computer Science (2024–2028)

Actively developing full-stack web applications and security solutions while pursuing coursework in algorithms, statistics, and AI.

Lenana School, Nairobi

Kenya Certificate of Secondary Education (KCSE), 2023

Leadership: Chairman, Mathematics Club (Form 2–4). Graduated with strong foundation in mathematics, sciences, and computing.

Future Goals

- Advance in AI, data science, and cybersecurity.
- Build scalable, secure web applications for real-world problems.
- Contribute to open-source tools and government digital services.