

Newton Maina.

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SKILLS SUMMARY

- **Languages:** Python, Typescript, JavaScript, C#, Solidity, SQL.
- **Frameworks and Technologies:** Django, React, Next.js, Node.js, VS, Android, Appwrite, ThirdWeb, Git.
- **Areas of Expertise:** Full-Stack Development, Agile Methodologies, OS, DSA, Machine Learning.
- **Soft Skills:** Leadership, Community Engagement, Team Collaboration, Detail Oriented, Communication.

EDUCATION

KCA University || Survey Nairobi, Kenya

Sep 2021– Current

B.Sc. Software Development

Relevant Coursework: Operating Systems, Data Structures & Algorithms, AI & ML, Web & Mobile App Development, OOP, UI/UX, Expert Systems...

LICENSES AND CERTIFICATIONS

Emobilis Institute || Westlands Nairobi, Kenya

Sep 2023– Dec 2023

Certificate: Web Development – Graduated on 27th July 2024 (Grade A of 92 points)

Relevant Coursework: CRUD apps, SQL/Postgres, Python Django, Front/Back-End Development...

KCA University || Survey Nairobi, Kenya

May 2024– Current

Certificate: AWS Cloud Practitioner

Relevant Coursework: AWS Core Services, Cloud Architecture, Security & Compliance, AWS Tools...

KCA University || Survey Nairobi, Kenya

May 2022– Oct 2022

Certificate: Cisco Certified Network Associate (CCNA Level 1-3) – (Grade A of 96 points)

Relevant Coursework: IP Routing, Security, WAN Technologies, Automation....

University at Buffalo via Coursera || Online

Jul 2024– Aug 2024

Certificate: Blockchain Basics

Relevant Coursework: Cryptographic Foundations, Consensus Models, Smart Contracts, Bitcoin & Ethereum, Solidity...

Other Certifications: Machine Learning for Associates, Data Analytics for Associates – *Safaricom PLC Kenya...*

EXPERIENCE

Intern - Site Reliability Engineer: *Safaricom PLC Kenya.*

Oct 2024– April 2025

- Automated operational tasks using Python ML scripts to improve system performance.
- Enhanced Django backends, React dashboards, and Power BI integrations for analytical reporting.
- Created SQL queries and automated report emailing via MobaXterm for operational efficiency.
- Performed intensive unit testing on backend components and APIs to ensure code reliability and minimize downtime during production deployments.

Intern - CodSoft: *Python Programming - Virtual*

Aug 2024– Oct 2024

- Enhancing Python programming skills through hands-on projects and coding challenges.
- Built Python apps and contributed to full-stack software development tasks.

Volunteer - Web Maintenance and Support: *Kiambu High School Alumni Association.*

Jun 2024 -

- Maintained and improved the organization's website to enhance UX and platform performance. (*khsaf.org*)

PROJECTS – (Samples)

CrowdFund: *Blockchain/Web Development*

- **Objective** – Built a decentralized crowdfunding platform with wallet-check, category filtering, email OTP verification, and smart contract tracking (Global funding).
- **Stack** – React, Solidity (Hardhat), Python-Django, PostgreSQL, Sepolia testnet, thirdweb.
- www.crowdfund.codesbynewton.com

WealthWave Banking App: *Finance Tech*

- **Objective** – Developed a modern multi-bank finance app with linked accounts, transaction history, ACH transfers (Dwolla), card management, and financial analytics.
- **Stack** – Typescript, Next.js, Appwrite, Plaid, Dwolla, Sentry, HTML/CSS.
- www.wealthwave-newton.vercel.app

AI Scraper/Parser: *Automation & ML*

- **Objective** – Automating data scraping and parsing from complex and CAPTCHA-protected sites using DOM extraction and LLMs.
- **Stack** – Python, Ollama, BeautifulSoup, LangChain, Selenium, PyMuPDF.

More Projects: www.codesbynewton.com/portfolio and www.github.com/Newton-Maina

CLUB INVOLVEMENTS

- African Ruby Community – Member and Volunteer.
- Be Audacious Tech Community – Co-Founder.
- Amazon (AWS) Students Community (Kenya) – Member.
- Code Africa(web3)– Member and Volunteer.
- Google Developers Student Club – Member and Volunteer.
- Microsoft Learn Student Ambassador – Trainee.

REFERENCES

- **Richard Waweru Karanja**
(Site Reliability Engineer – Safaricom PLC Kenya) – +254 707 712 555
- **Caroline Karimi**
(Lead Operational Excellence Team – Safaricom PLC Kenya) - +254 707 360 344