



AINAMAANI DOUGLAS BAGAMBE

SOFTWARE ENGINEER | FULL-STACK & BLOCKCHAIN DEVELOPER

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PROFESSIONAL PROFILE

Software engineer, blockchain developer and technical founder with hands-on experience delivering production websites, business systems, decentralized applications and AI-enabled products. Experienced in leading client delivery while remaining hands-on across frontend engineering, backend services, databases, smart contracts, deployment and technical coordination. Brings additional field-data experience supporting national and institutional programmes across Uganda.

CORE TECHNICAL COMPETENCIES

Full-Stack Engineering Next.js, React, TypeScript, Node.js, NestJS, Laravel, PHP, REST APIs, PostgreSQL and MySQL.	Blockchain & Web3 Solana, Rust, Anchor, Solidity, EVM smart contracts, wallet integrations and decentralized application architecture.
AI & Data Python, machine-learning integration, recommendation systems, data collection, KoboCollect and digital records.	Delivery & Leadership Solution architecture, technical planning, team coordination, Git/GitHub, Linux, Docker, Vercel and client delivery.

PROFESSIONAL EXPERIENCE

Co-Founder & Chief Executive Officer | NileBit Labs

Jan 2025-Present | Kampala, Uganda

- Lead technical strategy, solution architecture and end-to-end delivery for client web, blockchain and AI-enabled products.
- Coordinate developers and designers, turn business requirements into implementation plans, review quality and manage client communication.
- Remain hands-on across full-stack engineering, infrastructure, testing, deployment and production support.

Contract Blockchain & Full-Stack Developer | Truden Tech Ltd

Jul 2025-Present | Project-based / Remote

- Deliver project-based blockchain and full-stack assignments spanning web interfaces, backend integrations and decentralized application components.
- Work directly with leadership and product stakeholders to scope delivery, resolve integration issues and ship maintainable features.

Contract Software Developer | Biiteek Uganda

Jan 2025-Jul 2026 | Kampala, Uganda

- Developed and maintained Laravel/PHP systems including a bulk-SMS platform, retail point-of-sale system and sales-management platform.
- Designed database schemas, business logic, reporting workflows and user interfaces using Laravel, PHP, MySQL and JavaScript.

PROFESSIONAL EXPERIENCE - CONTINUED

Blockchain Developer | HCSS

Jan 2025-Feb 2026 | Contract / Remote

- Built the complete QuantumSEC frontend and contributed substantially to backend and blockchain implementation for an AI- and blockchain-focused security ecosystem.
- Integrated product content, token ecosystem flows and supporting services across the public platform.

Software & AI Engineer | AIBOS Uganda

Oct 2024-Jan 2025 | Kampala, Uganda

- Delivered client web projects and contributed to AI initiatives, including an e-commerce recommendation system and WordPress platforms such as GreenLeaf.

Freelance Web3 Developer | Catoff Integration Project | Short-term contract: Delivered a specialized Solana integration and supporting decentralized application functionality.

Freelance Solidity Developer | Remote Ukraine Project | Mar-May 2024: Designed and implemented a USDT smart-contract payment flow for access to digital resume templates.

Software Contributor | New Wave Technologies | Project engagement: Contributed to Motorsphere, a vehicle marketplace supporting listings and mechanical-service bookings.

SELECTED DELIVERED PROJECTS

Keibo Crowdfunding Platform | Full-Stack & Blockchain Developer / De Facto Technical Lead

keibo.io

- Contributed heavily to product design, frontend and backend engineering; independently implemented the blockchain layer and orchestrated technical delivery across the build.
- Used Next.js, NestJS, TypeScript and Solidity/EVM for campaign, contribution and blockchain-connected workflows.

- Designed and developed the responsive institutional website covering academics, admissions, school life, news, events, gallery, downloads and contact information.
- Delivered accessibility, SEO, content architecture, deployment and final production launch.

QuantumSEC Ecosystem | *Frontend & Blockchain Engineer*
quantsec.ai

- Built the frontend end-to-end and contributed heavily to backend and blockchain components for a token ecosystem focused on AI-driven, quantum-resistant security.

FIELD & DATA COLLECTION EXPERIENCE

Data Clerk | Agricultural Business Initiative - ABI Impact Survey | Jun-Jul 2026: Used KoboCollect to gather, validate and submit beneficiary information across western Uganda for an institutional financing-impact survey.

Data Clerk | Uganda Bureau of Statistics - National Livestock Census | May 2021: Collected and verified livestock data in Rwampara District and submitted complete daily records through prescribed field procedures.

Data Clerk | Ministry of Health - Under the Net Programme | Aug 2020: Captured household information in EDMIS and supported system-guided mosquito-net distribution.

EDUCATION BACKGROUND

PERIOD	INSTITUTION	QUALIFICATION
2022-2026	Makerere University	Bachelor of Science in Software Engineering <i>Completed and graduated in 2026</i>
2019-2020	Ntare School	Uganda Advanced Certificate of Education <i>UACE</i>
2015-2018	Namirembe Hillside High School	Uganda Certificate of Education <i>UCE</i>
2008-2014	St. Aloysius Primary School	Primary Leaving Examination <i>PLE</i>

SELECTED ACHIEVEMENTS & PROFESSIONAL STRENGTHS

- Placed third nationally in Uganda with a team in the April 2023 picoCTF cybersecurity competition.
- Experienced in translating technical requirements for non-technical clients and coordinating work across engineering and design contributors.
- Strong analytical, numerical, communication, leadership and practical problem-solving abilities developed across technology and field operations.
- Comfortable working independently, within cross-functional teams and across remote project environments.

ADDITIONAL TECHNICAL EXPOSURE

Artificial intelligence and machine learning projects include recommendation systems, language-audio translation experiments and a driver-behaviour monitoring system. Additional Web3 exposure includes crowdfunding applications, NFT marketplace concepts, smart-contract payment flows and Solana integrations.

LANGUAGES

English, Runyankole-Rukiga and Luganda - Fluent | Kiswahili - Good working proficiency

INTERESTS

Software development and emerging technology | Chess | Continuous learning and technical experimentation

REFERENCES

Professional references available upon request.