

KEALEBOGA EUGENE RATSHIPA

// THE DON CIPHER : SYSTEMS ARCHITECT

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ROOT_ORIGIN:

Serowe / Gaborone
Botswana

STRATEGIC FOCUS

- Digital Public Infrastructure
- Economic Coordination
- Sovereign Data Hosting
- Identity & Trust Frameworks
- Blockchain Coordination
- Fintech Pipelines

TECH STACK

- NextJS / React
- Node.js / Python
- Solidity
- Firebase / GCP
- Thirdweb / IPFS
- Docker

ARCHITECTURE

- Distributed Systems
- Scalable API Design
- UML & System Modeling
- Architecture Mapping

TRUST & SECURITY

- Cryptographic Fundamentals
- Verified Identity (DID)
- Cybersecurity

DATA & INFRA

- Database Design
- Query Optimization
- Cloud Deployment
- API Integration

PROFESSIONAL SUMMARY

Software Engineer specialising in Digital Public Infrastructure and Economic Coordination. Works across technology and business to turn complex, real-world problems into strong, lasting systems in identity, finance, and public infrastructure.

PROFESSIONAL EXPERIENCE

Intern

Jul 2026 – Present

Department of Wildlife and National Parks (DWNP), Botswana

- Provide first-line technical support for desktop computers, printers, network connectivity and Microsoft Windows environments across departmental offices.

Lead Developer

2022 – 2025

Ingenuity Earth

- Led software architecture and product strategy for early-stage technology ventures focused on digital identity, civic technology and public infrastructure.
- Participated in startup incubators, innovation programmes and hackathons, transforming concepts into functional MVPs and technical demonstrations.

KEY PROJECTS

Authentico | Document Verification Platform

- Developed a document verification platform using NextJS and Thirdweb to solve identity fraud in regional administrative processes.
- Implemented on-chain credential anchoring for tamper-proof, verifiable document authentication.

High School v3 (Digital Kgotla) | Civic Infrastructure

- Currently architecting a Digital Public Infrastructure platform that modernises community governance, identity verification and economic participation.
- Designing modular services supporting citizen identity, credential verification, civic engagement, commerce and government collaboration.

EDUCATION

BSc Computer Science & Software Engineering

2013 – 2024

Botswana International University of Science and Technology (BIUST)

- Specialisation: Software Engineering, Distributed Systems & Cryptography
- Focus areas: Distributed Systems, Computer Networks, Cryptography & Security, Mobile Computing, Entrepreneurship & Business Strategy

Capstone: Decentralised Governance Protocol

- Engineered a blockchain-based capital allocation system to solve inefficiencies in centralised funding models through trustless coordination between participants.
- Implemented transparent governance mechanisms enabling decentralised decision-making and crowdfunding at scale.