

James Mensah

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EDUCATION

Bachelor of Science in Computer Science University of Ghana, Legon

Relevant Coursework:

Network Performance with C++ and scripting,
Discrete Mathematics,
Object-Oriented Programming,
Cybersecurity,
Intelligent Agents (AI and Machine Learning)

Interests:

Artificial Intelligence, Cybersecurity,
Software Engineering.

Grad September, 2019 -, August, 2023

Skills:

Programming Languages:

- JavaScript • Typescript • Java • C#
- Solidity • Python • Dart

Frameworks/ Libraries:

Front End:

- React.js • next.js

Backend:

- Node.js • Nest.js • Express.js • Django

Mobile development

- React native • Flutter

Desktop development

- java swing • Electron.js

Data Analysis: • pandas • NumPy

Database Technologies:

- MySQL • SQLite • PostgreSQL • MongoDB
- Realm DB

Cloud Platforms:

- AWS (Amazon Web Services), S3, Lightsail, Route 53
- Heroku, Netlify, OnRender, Vercel

DevOps and Version Control

- Monitoring: Prometheus, Grafana,
- Tools: Docker, Kubernetes, Git, GitHub
- Operating Systems: Windows, Linux, Mac OS

EXPERIENCE

[Zkrypto](#) (ZKblock) | software developer

Nov 2023- present

- Enhanced **block-explorer** as an indexer for [zkwallet app](#), enabling **transaction tracking**.
- Optimized **block processing** to achieve **sub-1s processing time** for improved performance.
- Developed and automated **deployment scripts** using **Shell** and **Docker**, for service deployment processes.
- Developed [beta-test-faucet-app](#) for tokens minting across multiple networks including **Sepolia**, **XRP** and **Klaytn**
- writing **solidity smart contracts**, interaction with typescript, ether.js and web3.JS
- Analyzed **Hyperledger Besu system architecture**, exploring methods to **optimize transaction throughput**.
- Developed **monitoring stack** for Zkwallet backend services using **Prometheus**, **Grafana** and **docker** for development
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[Badu devapps](#) | full stack developer

match 2021 -June 2023

- Built front-end applications using React.js and styled with Tailwind CSS.
- Worked on back-end systems with **Node.js**, **Java**, **MongoDB**, and **PostgreSQL**.
- **AWS services (Route 53 and S3)** for deployment and storage
- collaborated on cross-platform mobile app development using Flutter.

Works

Faucet App (@ [Zkrypto](#))

A testnet faucet application for minting ERC-20, ERC-1155, NFT and native tokens across multiple blockchain networks.

zkWallet (@ [Zkrypto](#))

A next-generation privacy-focused digital wallet leveraging **zk-SNARK technology** for **anonymous and auditable transactions** on public blockchains.

 **Website:** zkwallet.biz

Blockchain Indexer System (@ [Zkrypto](#))

A scalable indexing solution for tracking blockchain transactions in real-time, optimizing data retrieval for enhanced user experience.

Digital Asset Management and Maintenance System (DAMMS) – Ghana Health Service

- A comprehensive **asset management system** designed for the **Ghana Health Service**, enabling efficient tracking, distribution, and maintenance of assets across regional units.

 **Website:** damms.ghs.gov.gh