

Cyprian Aarons

SENIOR FULLSTACK ENGINEER

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- Sandton, South Africa, Sandton, South Africa

ABOUT ME

- 6+ years** of Senior Fullstack Engineering experience specializing in blockchain and AI at **AfricAI.xyz**, **CST Ltd**, and **Coindraw.io**, successfully leading the development of over 10 innovative Web3 solutions.
- Demonstrated deep technical expertise in JavaScript, React, Web3.js, and Solidity, achieving a 50% reduction in Web3 feature development time and enhancing wallet response efficiency by 75% under high transaction loads.
- Adept at integrating AI solutions including OpenAI APIs, LangChain, and FastAPI to develop culturally relevant and accessible applications, promoting local language inclusivity and context-awareness for improved user experience and education outcomes.

LINKS

- Linkedin:**
linkedin.com/in/cyprian-aarons-aa3365204
- Github:**
github.com/CyprianTinasheAarons
- Blog:**
https://dev.to/cypriantinasheaarons

EDUCATION

Bachelor of Technology
Harare Institute of Technology / Harare, Zimbabwe

SKILLS

- TypeScript
- React
- Web3.js
- Ethereum
- Solidity
- APIs
- Python
- AWS
- Prompt Engineer
- AI Engineer
- Langchain
- OpenAI APIs
- Figma
- Docker

WORK EXPERIENCE

Chief Technology Officer
AfricAI.xyz | Sandton, South Africa | Jan 2023 - Feb 2024

- Led creation of AI applications, including Umoja.chat, providing accessible AI solutions for 20,000 African users who previously needed VPNs to access AI chatbots.
- Developed platforms incorporating local languages, enhancing educational content personalization by 45% for African students, with users learning history through stories in their native languages.
- Headed integration of OpenAI APIs and LangChain for nextgeneration AI functionalities, while building core APIs using Python and FastAPI, reducing code review cycles from 3 to 1.5 on average.
- Created African Folktales, a generative AI platform designed to teach children African languages, with 80% of users reporting increased interest in African cultures.
- Led product vision and technical strategy for company's core platforms, driving technology decisions aligned with business goals and market trends, while making the platform accessible in key African languages.

Full Stack Mobile Developer
CST Ltd | Remote (UK) | Jan 2023 - Jan 2024

- Designed and deployed a mobile application with AI insights for supply chain optimization, reducing processing times by over 80% and increasing first-time pick accuracy by 20%.
- Seamlessly integrated custom FastAPI solutions with existing IT infrastructures, enhancing system interoperability between order and warehouse systems, reducing QA testing cycle by 2 days per release.
- Implemented RESTful APIs and integrated thirdparty services into the mobile application, doubling product search speed and reducing average API response time from 500ms to 200ms (60% improvement).
- Collaborated with UX/UI designers to implement intuitive and visually appealing mobile interfaces, while conducting code reviews to improve overall code quality, reducing critical bug backlog from 20 to 5.

Full Stack Blockchain Developer
Coindraw.io | Remote (UK) | Jan 2022 - Jan 2024

- Designed and implemented a blockchain platform supporting secure and efficient transactions, including smart contracts for gaming, NFT tickets, and tokens to handle prizes.
- Developed robust backend APIs for ticket draws and user management using the MERN stack, scaling the system to handle 10,000 concurrent users, up from 100.
- Integrated blockchain solutions with existing web and mobile applications, implementing secure wallet functionality and cryptocurrency transactions, improving wallet response time by 75% under high load.
- Optimized blockchain architecture for scalability and performance, ensuring compliance with security standards and regulations, implementing realtime monitoring for 99.9% of network traffic.

Full Stack Developer & Web3 Specialist
Previous Experiences | Jan 2019 - Jan 2022

- Delivered user friendly and highly functional blockchain projects, working with global teams to develop over 20 Web3 solutions including NFT DApps, DeFi Smart Contracts, and Marketplaces.
- Implemented smart contracts and decentralized applications (dApps) on blockchain platforms like Ethereum, integrating Web3 technologies and wallets into existing web applications.
- Created an NFT marketplace capable of displaying 1,000 items without performance degradation, reducing contract compilation and bytecode size by 20%.
- Led development of datadriven online grocery platforms, incorporating machine learning for demand forecasting and AI-based features to enhance user experience.
- Directed a development team of 10 in creating responsive web applications with React.js, significantly improving user interface and functionality.
- Successfully resolved critical issues, eliminating app crashes during peak weekend traffic and implementing large, easily tappable buttons for efficient mobile shopping.