

ALFRED JAMES PEREMOBOWEI

AI-Native Full-Stack Engineer · AI-Agent Builder

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PROFESSIONAL SUMMARY

Self-directed software engineer and AI-native product builder with a bias for shipping. I design and build end-to-end AI agent systems in TypeScript and Python — multi-agent coding environments, blockchain infrastructure, utility platforms, and serverless APIs. I build in the open: every project below is live, typed, version-controlled, and deployed.

TECHNICAL SKILLS

LANGUAGES

TypeScript, Python, Solidity, JavaScript, SQL, Shell

BACKEND

FastAPI, Node.js, REST API design, Pydantic, Supabase

CLOUD

Vercel, Supabase, PostgreSQL, Docker

INTEGRATIONS

GSUBZ API, Supabase Auth, Telegram, blockchain RPCs

FRONTEND

React, Next.js 16, Tailwind CSS, shadcn/ui, Radix UI

BLOCKCHAIN

Solidity, Ethereum, Aleo, Zero-Knowledge Proofs, Web3.py

AI/AGENTS

OpenAI, Anthropic, multi-agent orchestration, AI SDK design

PROJECTS

Veil-sdk — Industrial AI Engineering SDK ★★★

Solidity, Python, AI Integration | github.com/Drainn55/Veil-sdk

AI-augmented blockchain development SDK with smart contract analysis and code generation capabilities. Modular architecture supporting multiple blockchain protocols with focus on developer experience and security best practices.

Impact: Built AI-native blockchain tooling — formal verification support, vulnerability scanning, comprehensive documentation, and example dApps.

Mobile VTU Platform — African Utility Service Platform ★★★

Next.js 16, TypeScript, Supabase, PostgreSQL, GSUBZ API | github.com/Drainn55/mobile-of-course-

Full-featured Virtual Top-Up platform for Nigerian users: airtime, data, cable TV, electricity, and recharge pins. Secure authentication with Supabase and robust wallet management system.

Impact: Built production-ready utility platform — RESTful API integration, transaction tracking, JSON-based API response storage, responsive UI with Tailwind CSS.

Aleo Blockchain Integration — Privacy-Focused Compute Platform ★★★

Aleo, Python, Zero-Knowledge Proofs | github.com/Drainn55/aleo

Integration with Aleo's privacy-focused blockchain platform. Smart contract solutions leveraging zero-knowledge cryptographic proofs. Python tooling for program compilation, deployment, and execution.

Impact: Implemented zkEVM-compatible infrastructure — API interfaces, Python tooling, contributed to developer tooling ecosystem.

Veilsdk — Full-Stack AI Engineer Platform ★★★

TypeScript, Vercel Sandbox | github.com/Drainn55/Veilsdk

Dual-agent AI platform generating multi-file full-stack apps with persistent codebase awareness. Lead Engineer + Architectural Reviewer governance pattern.

Impact: Hands-on agentic AI infrastructure — microVM orchestration, multi-agent review, production deployment.

WHAT I BRING

- **AI-native by default.** Frontier models as collaborators — multi-agent orchestration, tool definitions, sandboxed execution.
- **I ship.** Every project above is live or deployable.
- **Curious across the stack.** TypeScript to Python to Solidity to Aleo.

AVAILABILITY

Open to remote opportunities. Immediate start.

Live demos and code at github.com/Drainn55.