

CLARKE PLUMO

Principal Software Engineer

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PROFESSIONAL SUMMARY

Principal-level engineer with 10+ years designing and delivering high-scale systems across fintech, Web3, and consumer products. Track record of architecting platforms that process millions of transactions, leading distributed engineering teams, and founding technology-driven businesses. Deep expertise in full-stack development, blockchain infrastructure, and system design at scale.

PROFESSIONAL EXPERIENCE

Senior Full-stack Engineer

Metagood (OnChainMonkey & Osura) | 2021 – 2025

Led architecture and development of multi-chain NFT platform serving 10,000+ token holders across Ethereum, Bitcoin, and Stacks blockchains.

- Architected 32-package TypeScript monorepo (47,500+ LOC); delivered 1,282 commits across 4 years
- Designed cross-chain token tracking system with real-time event monitoring and database replication
- Built gamification infrastructure: dual-currency economy, XP progression, Discord/Twitter integrations
- Scaled read-heavy workloads using MySQL read replicas on AWS RDS
- Developed Osura marketplace for Bitcoin Ordinals with inscription and trading capabilities

Lead Back-end Engineer

Union Bank of the Philippines (via White Cloak Technologies) | 2017 – 2020

Led backend engineering for UnionBank Online, a mobile banking platform serving millions of active users.

- Architected Java Spring Boot microservices on bare metal infrastructure processing millions of daily transactions
- Designed and implemented core banking APIs: fund transfers, bill payments, check deposits, account management
- Established backend development standards, code review practices, and deployment pipelines
- Mentored junior engineers and coordinated with cross-functional teams across mobile, QA, and operations

Data Scientist

Smart Communications (via Solutions Resource Inc.) | 2014 – 2016

Applied machine learning to telecommunications data for one of the Philippines' largest telcos.

- Built NLP pipeline using Naive Bayes with n-grams for sentiment analysis on Twitter election data
- Developed predictive models driving marketing and customer retention strategies

ENTREPRENEURSHIP & LEADERSHIP

Chief Technology Officer

AtmosMed Pharmacy | 2021 – Present

Founded and lead technology operations for a multi-branch pharmaceutical distribution company.

- Scaled operations from 1 to 4 pharmacy branches across Tarlac, Philippines
- Architected distributed attendance system with biometric integration; achieved 99% data sync reduction
- Built multi-database inventory and quotation platform (Django, SQL Server, PostgreSQL)
- Developed GPS tracking system for delivery fleet management and route optimization
- Deployed cloud infrastructure on Digital Ocean using Terraform with automated CI/CD pipelines

Founder & Lead Developer

Squatopia | 2024 – Present

Designing and developing a VR fitness game for Meta Quest platforms.

- Built Unity 6 application with 313+ C# scripts and Meta XR SDK integration
- Designed combat system with 300+ abilities across 4-tier skill tree; 15+ enemy AI behaviors
- Implemented fitness tracking for 15+ real-world movements with form validation
- Engineered localization framework supporting 34+ languages including RTL scripts

Technical Contributor

BetterGovPH | 2025

Contributing to open-source initiative modernizing Philippine government digital services.

- Developed React frontend components for portal serving 1,000+ indexed government services
- Integrated Meilisearch for full-text search; built serverless pipelines on Cloudflare Workers
- Implemented accessibility compliance (WCAG) with automated Playwright test coverage

TECHNICAL EXPERTISE

Languages: TypeScript, JavaScript, Python, Java, Go, C#, Solidity

Backend: Node.js, Spring Boot, FastAPI, Django, Express

Data: PostgreSQL, MySQL, MongoDB, Redis, SQL Server

Infrastructure: AWS, Digital Ocean, Terraform, Docker, Kubernetes

Blockchain: Ethereum, Bitcoin Ordinals, Stacks, Smart Contracts, ethers.js

Frontend: React, Web3, GraphQL, REST API Design

Specialized: Unity/VR Development, Machine Learning, System Design