Omonu Prince Itanyi - Portfolio

Personal Information

Name: Omonu Prince Itanyi

Location: Abuja, Nigeria

Phone: 08130190612

Email: omonuitanyi@gmail.com

LinkedIn: linkedin.com/in/princeomonu

GitHub: github.com/princeomonu

Portfolio: www.princeomonu.com

Professional Summary

I'm a results-driven product leader and software architect with a unique blend of technical expertise and product management skills. My experience spans machine learning, blockchain development, IoT systems, and enterprise architecture, complemented by a strategic approach to product development and team leadership.

My technical foundation enables me to design robust, scalable systems while my product management capabilities allow me to translate business needs into technical requirements, prioritize features based on user impact, and guide cross-functional teams through product lifecycles. I excel at stakeholder management, roadmap development, and data-driven decision making while maintaining a relentless focus on user experience and business outcomes.

I'm passionate about mentoring teams, fostering a culture of innovation, and delivering products that create genuine value for users while maintaining technical excellence and operational efficiency.

Core Competencies

- **System Architecture**: Offline-first systems, real-time collaboration, secure infrastructures
- **Machine Learning**: Applied ML for plagiarism detection and cheating prevention

- **Blockchain Development**: Smart contract design, token development, and ICO management

- **Linux**: Proficient in Linux system administration, shell scripting, and server management

- **Backend Development**: Microservices, authentication systems, container orchestration

- **IoT & Real-Time Systems**: Asset integrity monitoring, hardware integration

- **DevOps**: CI/CD pipelines, infrastructure as code, containerization

- **Technical Skills**:

  - **Languages**: JavaScript, TypeScript, Python, Solidity, Shell Scripting, C

  - **Frameworks & Tools**: Node.js, Electron, Docker, Kubernetes, Jenkins, WireGuard

  - **Machine Learning Tools**: TensorFlow, Scikit-learn, OpenCV

  - **Blockchain Platforms**: Ethereum, Binance Smart Chain

  - **Frontend**: Vanilla JS, React.js, Electron-based applications

Professional Experience

Project Manager

Talstrike | Abuja, Nigeria

January 2025 – Present

- Leading project management for Talstrike, an innovative platform connecting fans, talents, and sports professionals.

- Orchestrating cross-functional teams to ensure timely delivery of platform features and functionalities.

- Implementing agile methodologies to streamline development workflows and optimize resource allocation.

- Facilitating communication between technical and non-technical stakeholders to align project goals with business objectives.

- Managing project timelines, budgets, and resources to ensure successful platform launch and continuous improvement.

Chief Technology Officer

KadMap | Abuja, Nigeria

2022 – Present

- Lead engineering and product teams in designing KadMap, a robust system for managing offline enterprise applications.

- Delivered critical infrastructure components, including authentication, runtime environments, and network modules.

- Oversaw cross-functional teams to ensure the successful deployment of KadMap.

Notable Projects:

1. **KadMap Architecture**: Planned and implemented a system with passwordless authentication, app runtime, admin tools, hardware integration, and real-time collaboration.

2. **KadMap Client**: Built an Electron and TypeScript-based desktop app for interacting with KadMap Apps.

3. **KadMap Sudo-d**: Developed a service for running privileged commands using Node.js, TypeScript, Shell, and C.

4. **KadMap Compute Runtime**: Abstracted Kubernetes services to manage volumes and containers for KadMap applications

5. **KadMap Auth**: Created a custom OAuth service for zero-trust, passwordless authentication.

6. **KadMap DevTool**: Designed and implemented a comprehensive CLI tool for KadMap development environment management featuring: Declarative configuration for environment, service, and workspace management, Container orchestration, WireGuard networking and Development workflows.

KadMap® | Your Central Office Computer

KadMap® is a powerful computing device that serves as the primary hub for managing and processing data within an organization's office environment. It acts as the central point

 https://www.kadmap.com/

Lead Engineer

Klosters Energy Services | Abuja, Nigeria

2018 – 2022

- Designed and implemented the **Real-time Asset Integrity Management (RAIM)** system for oil and gas production plants.

- Built IoT solutions for real-time asset monitoring to enhance operational efficiency.

Klosters Energy Services ® | Digital Engineering Services

Klosters Energy Services (KES) is a technology-augmented engineering (TechEng) Company - we combine the traditional feel of an engineering company with the futuristic feel of a "Tech" (IT) company.We provide digital asset solutions with the latest cutting-edge technology with a view to

 https://www.klostersenergy.com/

Lead Engineer & Product Manager

Lachariz Group | Abuja, Nigeria

July 2024 – Present

- Managed a team of backend and frontend engineers to deliver innovative web applications.

- Integrated machine learning capabilities into applications for enhanced functionality.

- Notable projects include:

  - **Bravort LMS**: Built a Learning Management System with machine learning features for plagiarism detection and cheating prevention during online tests.

> Home Page | <!-- →Bravort
>
> Bravort - Discover your tech and design superpowers at Bravort – a community of learners that speak the language of innovation and creativity – dive into tech and design with us.
>
> 🛡️ https://www.bravort.com/

- **Chariz Homes**: Developed a property management platform.
  - **Naija Leap Sports**: Engineered a sports management system for leagues and tournaments.

> Naija Leap Sports
>
> A dynamic and innovative sports competition platform based in Nigeria
>
> ▲ https://www.naijaleapsports.com/

Freelance Blockchain Developer

Fancy Token ICO Project

2023

- Developed and deployed smart contracts for the **Fancy Token ICO** on Binance Smart Chain:

- **ICO Contract**: Designed and implemented a Solidity-based ICO smart contract to manage token sales and allocations.

- **ERC-20 Token Contract**: Created an ERC-20-compliant token for Fancy Token.

- Built a fully functional website to manage the ICO, including real-time token distribution tracking and investor dashboards.

> Fancy - The first AI powered crypto-task generator.
>
> Fancy Coin is a revolutionary AI tool invested to ease up the creation of AI related projected. The regular aspect of the fancy project is to simplify the use of AI within any blockchain.
>
> 〰️ https://fancy-coin.web.app/

Freelance Backend Engineer

- **Emmycares Data Enterprise**: Built and maintained a VTU platform for airtime, data purchase, and bill payment services.

EmmyCares Data Enterprise

Buy cheap data and airtime for all local networks

https://emmycaresdataenterprise.com/

- **GoChop**: Designed and deployed a microservices architecture for a food delivery platform, supporting payments, notifications, and messaging.

- **Afrihub**: Engineered a backend infrastructure for a video hosting platform using Google Cloud Storage CDN for seamless video delivery.

Teaching & Speaking Engagements

Lead Instructor

Bravort Institute of Technology | Abuja, Nigeria

August 2024 – Present

- Teach advanced software engineering, including system architecture and backend development.

Single Course page | <!-- →Bravort

Bravort - Discover your tech and design superpowers at Bravort – a community of learners that speak the language of innovation and creativity – dive into tech and design with us.

https://www.bravort.com/courses/frontend-engineering

Founder & Lead Instructor

TeloHub E-School

- Trained dozens of engineers in software engineering, system design, and related fields.

Welcome | TeloHub

JavaScript & NodeJS Programming

https://telohub.netlify.app/

Trainer

NYSC SAED Program | Bravort Institute

- Delivered technical training on software development to National Youth Service Corps members.

Notable Speaking Engagements

- **University of Abuja FYB Law Event**: Delivered a talk on "Technology in Law."

Key Projects

KadMap Projects

- Architected and implemented offline-first systems with secure infrastructures, collaborative desktop environments, and zero-trust authentication.

- Designed a comprehensive distributed computing platform consisting of master and local nodes communicating through encrypted channels.

- Built a modular ecosystem of services including:

  - **Master Control Daemon (MCD)**: Core service managing authentication, licensing, and global state

  - **Local Control Daemon (LCD)**: Edge node service handling local applications and hardware integration

  - **KadMap Client**: Desktop application providing a secure runtime for KadMap applications

  - **Admin Tools**: Web-based management interface for system administrators

- Implemented a security-first approach with certificate-based authentication, capability-based authorization, and audited privilege escalation.

- Created a streamlined development pipeline with custom tooling for both application and service developers.

KadMap DevTool

- Developed a sophisticated CLI utility that manages the KadMap development ecosystem with declarative configuration, container orchestration, and advanced network topologies.

- Implemented a declarative "configuration as code" approach where environment states are defined in version-controlled files.

- Created tooling for both application developers (with simplified workflows) and service developers (with advanced configuration options).

- Built a multi-universe system supporting complex testing scenarios and production-like topologies.

Fancy Token ICO

- Designed and deployed ICO and ERC-20 token contracts on Binance Smart Chain.

- Implemented secure smart contracts with multisignature wallet support for fund management and token distribution.

- Created a tokenomics model with phased release schedules, vesting periods, and automatic distribution mechanisms.

- Built a React-based frontend dashboard for investors to track ICO progress, token allocations, and vesting schedules.

- Integrated with Metamask and other Web3 wallets for secure transaction signing and user authentication.

- Implemented robust security measures including rate limiting, KYC/AML verification, and transaction monitoring.

Bravort LMS

- Built an LMS with machine learning capabilities for plagiarism detection and cheating prevention.

- Developed an AI-powered proctoring system that monitors student behavior during online exams, detecting suspicious activities using computer vision.

- Implemented a sophisticated document similarity algorithm for plagiarism detection across submitted assignments.

- Created a scalable content delivery system for educational materials including videos, interactive assignments, and assessments.

- Built a comprehensive analytics dashboard for instructors to track student progress and identify learning patterns.

- Implemented a microservices architecture with Node.js backend, React frontend, and MongoDB for data storage.

VTU Platform

- Engineered backend systems for virtual top-up services and automated payment processing.

- Integrated with multiple payment gateways including Paystack, Flutterwave, and bank APIs for seamless fund transfers.

- Implemented a transaction reconciliation system with automated verification and error handling.

- Built a secure API layer for third-party service providers to connect to the platform.

- Created a comprehensive audit trail system for all transactions with detailed reporting.

- Designed and implemented a robust caching strategy for high-traffic periods, ensuring system stability under load.

GoChop

- Developed a robust backend for a food delivery system, enabling seamless operations and scalability.

- Implemented a real-time order tracking system using WebSockets for live updates to customers and restaurants.

- Created an intelligent dispatching algorithm for optimal driver assignment based on location, traffic, and order volume.

- Built a comprehensive analytics platform for business intelligence, including sales forecasting and inventory management.

- Integrated with mapping APIs for accurate delivery time estimation and route optimization.

- Implemented a notification system across multiple channels (SMS, email, push) for order status updates.

Afrihub Video Platform

- Engineered a backend infrastructure for a video hosting platform using Google Cloud Storage CDN for seamless video delivery.

- Implemented a distributed transcoding pipeline for optimizing video delivery across various devices and network conditions.

- Created a secure content protection system with DRM integration and access control.

- Built an intelligent content recommendation engine using collaborative filtering and user behavior analysis.

- Developed a scalable metadata management system for video categorization, search, and discovery.

- Implemented analytics tracking for viewer engagement, retention, and content performance.

Interests

- Applying machine learning in real-world applications.

- Blockchain technology for decentralized solutions.

- Mentoring engineers and fostering innovation in software development.