



Miracle Toluwase Ogunlade

Software Engineer & System Architect

👤 Profile

Forward-thinking Problem Solver with a passion for solving complex challenges through scalable, high-performance systems. A technology polyglot, fluent in multiple modern technologies, programming languages and adept at quickly mastering new technologies and optimizing processes for efficiency and impact, with a proven track record of working effectively in distributed teams and dynamic environments. Well-organized and customer-focused, I bring extensive experience in product development and team leadership.

★ Technical Skills

Typescript / Javascript

Elixir

Golang

Python

C

SQL / NoSQL

Messaging & Communication Protocols

Software Architecture & System Design

Cloud & DevOps

📁 Employment History

Founding Engineer at Ayika Solutions Ltd, Lagos, Nigeria

November 2024 — Present

- **Designed and implemented a unified notification system**, supporting **SMS, email, WhatsApp, push notifications, and MQTT messaging** through a single interface, ensuring seamless and scalable communication.
- **Architected a dynamic event bus and process engine**, enabling **real-time event processing** using a **fan-out approach**. This system processes events based on **pre-configured handlers** assigned to specific entity types, allowing for **flexible, scalable, and automated workflows**.
- **Developed a request orchestration system**, which manages and coordinates **multi-step workflows** for user requests. The system supports **parallel execution, dependency-based sequencing, and deadline enforcement**, ensuring efficient task execution across multiple services and subsystems.

Details

Lagos

Nigeria

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Links

[Github](#)

[Linkedin](#)

[Personal Website - merkll.com](#)

Soft Skills

Collaboration &

Cross-Functional

Communication

Adaptability & Quick Learning

Problem-Solving & Critical
Thinking

Technical Leadership &
Mentorship

Effective Decision-Making

Hobbies

Gaming & Esports, Outdoor

Sports, Bird watching,

Stand-Up Comedy, DIY &

Hardware Hacking

- **Designed and implemented a price negotiation system**, enabling **real-time, structured price discussions** between customers and providers while maintaining transparency and fairness.
- **Architected the milestone resolution system**, ensuring **structured, trackable, and enforceable progress tracking** for service requests, enabling clear **accountability and payment release conditions**.
- **Led the development of the AI-powered provider matching engine**, leveraging **AI/ML algorithms** and **multi-agent coordination** to intelligently match users with the most suitable service providers based on expertise, availability, location, and other dynamic factors.
- **Designed the wallet and payment system**, ensuring **secure transactions, escrow functionality, and seamless fund management** for users and providers.
- **Built the provider metrics and performance tracking system-**, enabling **data-driven insights** into provider performance, service quality, and user satisfaction.

Platform Engineer at Murcul Inc (GitStart), California, USA | Remote

March 2022 — November 2024

- Developed a service to abstract orchestration of Git-related actions using Gitslice, leveraging Elixir for efficient performance and scalability.
- Architected and optimized a webhook service to handle data processing from external sources, enhancing its capabilities to support multiple consumers and topic filtering by offloading configuration parsing to compile time.
- Engineered a connector architecture enabling bi-directional data synchronization between ticketing systems (JIRA, Linear, GitHub issues) and internal systems, allowing AI-powered ticket refinement, built using Node.js and TypeScript.

Founding Engineer at Paycrow, Lagos, Nigeria

January 2020 — March 2022

- **Designed and implemented a financial data integrity system** leveraging **blockchain technology** to ensure **data immutability and security** across transactions.
- **Architected and developed the payment request system-**, enabling users to **create, track, and manage payment requests**, attach milestones, and release funds upon milestone completion.
- **Designed and implemented a milestone-based escrow system**, ensuring **contractual compliance** by linking monetary inflows to milestones, only releasing funds when predefined conditions were met.
- **Architected the core escrow transaction workflow**, facilitating seamless deposits, real-time transaction monitoring, and automated payouts, enhancing transparency and trust between buyers and sellers.

Team Lead (Client Projects) at Murcul Inc (GitStart), California, USA | Remote

October 2020 — March 2022

- **Led the performance optimization of a JavaScript and .NET-based computation engine**, heavily utilized by an insurance company for running proprietary algorithms. Achieved a **35% performance boost** by reviewing specifications and implementing algorithmic and data structure optimizations.
- **Led a team of engineers to develop a high-performance computation library in C++**, replicating **proprietary insurance algorithms** for parsing and computing complex financial data. This library was integrated into an internal dashboard, enabling **insurance agents to perform advanced computations efficiently**.
- Provided technical leadership, ensuring that projects were delivered on time and aligned with product goals while maintaining the utmost quality

Technical project Manager (Client Projects) at Murcul Inc (GitStart), California, USA | Remote

March 2020 — September 2020

- **Designed the architecture for a real estate platform using .NET**, laying the foundation for its core functionalities. Led the implementation of a **CI/CD deployment strategy on Azure**, ensuring a smooth and automated release process.
- **Architected and contributed** to core features of a manufacturing software, including a **dashboard for creating and tracking manufacturing workflows** and a **material consumption tracking system** to monitor resource usage across different manufacturing stages.
- Balanced hands-on coding with project management responsibilities, ensuring successful delivery and alignment with client objectives.

Software Engineer (Client Projects) at Murcul Inc (GitStart), California, USA | Remote

December 2019 — March 2020

- **Researched and developed the approach for implementing the rebase feature** in an internal Git tool that worked with mirrored repositories across multiple cloud platforms and Git providers, including GitHub, GitLab, and privately hosted repositories, to streamline code synchronization processes.
- Collaborated with a senior engineer to architect a high-availability data sync solution across project management tools, utilizing webhooks and Kubernetes.

Software Developer at Andela, Lagos, Nigeria

June 2019 — September 2019

- **Designed and developed the foundational architecture for a content creation engine**, enabling seamless content generation and management. Collaborated in building the UI client that interfaced with this engine, ensuring a smooth user experience.

- **Implemented an advanced version tracking algorithm** to compute content divergence and maintain a version tree. This system ensured an accurate version history, allowing users to see the correct version when leaving comments on specific content sections.

Software Developer at Askvisory, London, UK | Remote

August 2017 — May 2019

- **Led the migration to a serverless architecture**, replacing physical servers with AWS serverless services such as Lambda, Elastic Container Service (ECS), Memcached, API Gateway, and EC2. Designed and implemented CloudFormation templates to automate deployment environments, ensuring seamless code testing, builds, and updates.
- **Designed and co-implemented a data mining system**, utilizing parallel-coordinated workers to extract and consolidate data into a PostgreSQL database for downstream processing. Collaborated with engineers to build and optimize system performance.
- **Developed the telephony subsystem**, integrating Twilio's API for seamless communication between customers and professionals. Ensured accurate session-based billing by integrating it with the billing engine and implemented an automated verification process for completed expert consultations.
- **Designed and helped implement the billing system**, ensuring precise tracking and automated invoicing for expert services.
- **Built the professional search and matching engine**, collaborating with engineers to develop an intelligent algorithm that ranked professionals based on expertise, location, availability, and legal constraints.

Education

Bachelor of Engineering - Metallurgical and Materials Engineering, The Federal University of Technology, Akure, Akure, Nigeria

November 2012 — March 2018

Completed a thesis exploring the role of nanoparticles in enhancing material strength and durability.

Extra-curricular activities

Mentor at She Code Africa, Lagos, Nigeria | Remote

June 2020 — August 2020

- Provided mentorship and technical guidance to aspiring female software engineers, helping them develop skills in coding, problem-solving, and career development.
- Supported mentees through hands-on learning and project-based mentorship, contributing to their growth and success in the tech industry.

References

References available upon request