ALADEYELU OLUFEMI SAMUEL

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Software Engineer, entrepreneur & Design Thinker

Multidisciplinary **Software Engineer**, **Design Thinker**, and **Entrepreneur** with over **5 years of combined experience** spanning backend engineering, DevOps, IT administration, and product innovation.

Trained rigorously at **Semicolon Africa** alongside an entrepreneurial program in partnership with **Henley Business School (UK)**, equipping me with expertise in business model innovation, lean startup methodologies, and user-centric design.

Skilled in applying **design thinking** to deep understand user needs, rapidly prototype solutions, and deliver scalable, secure applications aligned with real-world problems.

Proficient in **Java Spring Boot**, REST APIs, cloud-native DevOps practices, and full-stack development with modern frameworks. Experienced in leading teams and managing infrastructure, blending technical excellence with strategic vision to build impactful software products.

Technical Skills

Languages	:	Java, Python, JavaScript, TypeScript, Kotlin, Dart, HTML, CSS, MQL5
Frameworks	:	Next.js, Vue.js, React.js, Angular, Express, Node.js, Django, Spring, Flutter, NestJS
Databases	:	MongoDB, PostgreSQL, MySQL, CouchDB, Redis
Dev Tools	:	Visual Studio Code, Git, JetBrains IntelliJ, Postman, Docker, Kubernetes, GitHub Actions, Helm
Cloud & Platforms	:	Google Cloud Platform, AWS, Sui Blockchain, Docker Hub
Methodologies	:	Design Thinking, Lean Startup, Agile & Scrum, User Research, Product Ideation, MVP Development
Entrepreneurship	:	Business Model Innovation, Startup Execution, Market Analysis, Value Proposition Design, Strategic Planning

Experience

Backend/DevOps Engineer   Jan 2025 – Present
PaderLabs   *Lagos, Nigeria*

- Developing **scalable backend services** for startups, using **Java, Python, and JavaScript**.
- Building **RESTful APIs** and **real-time applications** using **Spring Boot, Django, and Node.js**.
- Managing **CI/CD pipelines** and deploying applications using **Docker, Kubernetes, and cloud platforms**.
- Optimizing system performance by **refactoring codebases**, improving **database query efficiency**, and implementing **caching strategies**.

MQL5/EA Developer   Jan 2025 – Present
Freelance   *Lagos, Nigeria*

- Designing and developing **custom Expert Advisors (EAs) and indicators** for automated trading on **MetaTrader platforms**.
- Implementing **technical analysis strategies**, integrating indicators like **moving averages, RSI, MACD, and Bollinger Bands**.
- Developing **risk management and trade execution logic**, ensuring **optimal stop-loss and take-profit placements**.
- Collaborating with traders to **backtest and optimize** trading algorithms for **better market performance**.

Backend Engineer   Jan 2025 – August 2025
Hamoni   *Remote*

- Developing a **secure, AI-powered web-based note-taking application** designed for **therapists, counselors, and medical specialists**.
- Implementing **Spring Boot microservices** to process speech-to-text data and **integrate NLP models** for generating structured session notes.
- Ensuring **data privacy and healthcare compliance** by implementing **robust authentication and encryption** strategies.
- Collaborating with **frontend teams** to deliver a **seamless user experience** while integrating real-time **session tracking and analytics**.

Product Manager, Software Engineer & Web3 Programmer   Feb 2025 – Sept 2025
One Trillion Pips   *Remote*

- Leading product strategy and development for a Forex trading platform, coordinating cross-functional teams including frontend, backend, and DevOps.
- Architecting and developing core backend services using **Spring Boot** and **PostgreSQL**, ensuring scalable and maintainable solutions.
- Building and integrating blockchain-based features as a **Web3 Programmer**, enhancing transparency and security in trading operations.
- Overseeing UI/UX collaboration and feature implementation with Vue.js frontend developers.
- Managing deployment pipelines, cloud infrastructure, and continuous integration to accelerate product delivery.

IT Support Specialist   Jan 2021 – Sept 2023
Armstrong Ventures   *Lagos, Nigeria*

- Providing **technical support** for hardware and software issues across departments.
- Managing **system installations, upgrades, and network configurations**.
- Assisting with **user account management**, troubleshooting, and helpdesk ticket resolutions.
- Ensuring **IT compliance**, backup processes, and supporting software deployments.

EDUCATION

Henley Business School   Reading, UK
Diploma in Entrepreneurship Studies   *Sept 2023 – Aug 2024*

Semicolon Africa   Lagos, Nigeria
Diploma in Software Engineering   *Sept 2023 – Aug 2024*

Ajayi Crowther University   Oyo, Nigeria
Diploma in Entrepreneurship Studies   *Jan 2019 – Sept 2020*

PROJECTS

Tiny Fund - AI DeFi Agent   Sui Move, Node.js, TypeScript, OpenAI
Sui Hacker House   *2025*

- Built a decentralized platform enabling investors to copy top-performing wallets using an AI agent.
- Smart contract logic deployed on Sui; AI suggests trades, monitors portfolio risk, and executes with opt-in consent.

Hamoni AI Powered Note Taker   React, Spring, PostgreSQL, MongoDB
Hamoni Health   *2025*

- Recording assistant for therapists with AI-powered note generation and cloud storage.
- Secure backend with dual-database architecture and encryption layers for compliance.

Fair Value Gap EA + Indicator   MQL5
MetaTrader 5   *2025*

- Developed both an EA and standalone indicator to trade FVGs with confirmation from structure breaks (BOS/MSS).
- Engineered a modular class-based system for better visualization buffers and time-based filters.

HAPI FHIR Backend Layer   Spring Boot, JPA, PostgreSQL
Open Health Project   *2025*

- Created FHIR resource providers extending HAPI with paging, search, and validation logic.
- Mapped internal models to conformant FHIR JSON, handling Patient, Practitioner, and Observation.

GKE CI/CD DevOps Project   Docker, Helm, GitHub Actions, GKE
Assessment Project   *2025*

- Built a Helm chart and automated CI/CD pipeline to deploy fullstack containers on Google Kubernetes Engine.
- Set up GitHub Actions for linting, testing, image build, and helm install on merge to main.

OneTrillionPips Platform   Vue.js, Spring Boot, PostgreSQL

- Led development as **Project Manager and Backend Engineer**, overseeing frontend, backend, DevOps and Cloud, and UI/UX design.
- Built and deployed a Forex platform with **Vue.js frontend** and **Spring Boot backend** with Version 1 in Dev environment.
- Implemented modules for **authentication, subscription plans, user profiles, join waitlist for trading bots**, and more.

Dental Alumni Backend   NestJS, TypeScript, MongoDB

- Developed a lightweight backend using **NestJS** for managing alumni registrations and connections.
- Implemented RESTful APIs for handling **alumni profiles, departments, and graduation year groups**.
- Integrated **PostgreSQL** with TypeORM for efficient data persistence.

CERTIFICATIONS

- Certified Email Marketer by Hubspot Academy

PROFESSIONAL SUMMARY

Multidisciplinary **Software Engineer**, **Design Thinker**, and **Entrepreneur** with over **5 years of combined experience** across backend engineering, DevOps, system architecture, and IT administration. Trained at **Semicolon Africa**, a rigorous software engineering institute, where I also completed an entrepreneurship program in partnership with **Henley Business School (UK)** -gaining hands-on experience in business model innovation, startup execution, and product development.
Adept in applying **design thinking methodologies** to uncover user needs, rapidly prototype and build user-centric, impactful software. My technical foundation blends backend engineering, system design, and DevOps with a strategic mindset grounded in lean innovation principles.

- **Entrepreneurial Strategy:** Skilled in designing and testing value propositions, lean product development, and innovation frameworks.
- **Design Thinking:** Experienced in user research, pain point framing, ideation, and MVP delivery.
- **Backend Engineering:** Expert in **Java (Spring Boot)**, REST APIs, and microservice architecture.
- **DevOps & Cloud:** Hands-on with Docker, Kubernetes, CI/CD, GitHub Actions, and Google Cloud.
- **Full-Stack Capabilities:** Comfortable with React, Vue.js, PostgreSQL, and MongoDB.
- **IT Administration:** Over 2 years managing infrastructure, user support, and systems ops before pivoting into software.
- **MQL5 Engineering:** Developer of trading bots and indicators using market structure and liquidity strategies.
- **Team Leadership:** Led engineering teams across architecture, cloud deployment, and client delivery.

I thrive in environments where **technology, design, and business** intersect—particularly in early-stage innovation, product validation, and scalable software delivery.