

ALFRED EMMANUEL INYANG

+234 818 782 7291 | alfredemmanuelinyang@gmail.com | Federal Capital Territory, Nigeria

linkedin.com/in/alfredemmanuelinyang | github.com/pycomet

PROFESSIONAL SUMMARY

Senior Software Engineer (8+ years) specializing in building scalable AI-powered backend systems, cloud architecture, and microservices. Significant experience owning end-to-end development, optimizing infrastructure at scale, and delivering production-ready features in fast-moving teams.

PROFESSIONAL EXPERIENCE

O.xyz (ORGN)

San Francisco, USA

AI Engineer

February 2026 – Present

- Building ORGN CDE, an enterprise AI IDE featuring confidential computing, cryptographic attestation, and multi-agent development workflows for regulated industries.
- Developing full-stack features across the platform including secure agent modes for code review, architecture exploration, and research tasks.
- Implementing backend services and integrations for project knowledge bases, Git workflows, and encrypted session management.

InferenceCloud.ai

Florida, USA

Lead Engineer

February 2024 – February 2026

- Promoted to Lead Engineer, overseeing both frontend and backend engineering across the platform.
- Led migration of RAG infrastructure from Weaviate to GCP Vector Search, improving search relevance and reducing operational costs across production workloads.
- Architected LLM pipeline optimizations that reduced monthly inference costs by 92% (\$60K → \$4.8K) while maintaining production performance and reliability.
- Designed and built custom LLM pipelines for production workloads, integrating multiple model providers and optimizing inference performance.
- Developed scalable API services using Python (FastAPI) and integrated LLM/VLM features.

RivetAI

Culver City, CA, USA

Senior Software Engineer / Tech Lead

February 2023 – February 2024

- Architected and deployed the initial MVP's scalable cloud infrastructure from the ground up, utilizing AWS services including EC2, SQS, Lambda, and DynamoDB to support core business functions.
- Designed microservice architecture using Python & AWS Lambda, reducing resource usage by 25%.
- Led a growing engineering team, overseeing frontend, backend, and cloud infrastructure efforts, conducting code reviews, and mentoring engineers to maintain high standards of code quality and architectural integrity.
- Built Django backend systems for film automation, later migrated to FastAPI (script breakdowns, budgeting tools).

CVtoCareer

Sydney, NSW, Australia

Full Stack Engineer

December 2022 – May 2023

- Built backend services using Django and FastAPI, including authentication, role-based access, and API endpoints for client onboarding workflows.
- Designed RESTful APIs and integrated third-party services to automate job application processing.
- Implemented secure containerized deployment using Docker and optimized backend performance and database queries.
- Collaborated in a team of 3 to enhance platform functionality and drive user experience improvements through continuous refinement of the product.

Glibx Inc

Ontario, Canada

Full Stack Engineer

February 2021 – September 2022

- Worked on building the #BattleRoyalToken Staking Dapp and DeFi applications.
- Built a working web3 bridge tool on JioSwap.
- Built a mockup and designed decentralized exchange automated market maker (AMM) from the official Pancake frontend clone.
- Wrote and deployed Python microservice autonomous scripts/web crawlers.

UNICEF

Nigeria

Web Developer

March 2022 – August 2022

- Engineered and deployed a high-availability serverless application on a cloud platform, designed to handle 5 million pledges across multiple Nigerian states.
- Implemented event-driven database triggers to ensure real-time data synchronization and display across the entire website, optimizing for speed and efficiency.

NASA

Remote

Frontend Web Developer & Technical Contributor

August 2020 – October 2021

- Contributed to a UI design system with React and developed context store managers to cache large datasets, significantly reducing load times and improving application responsiveness.

AWARDS & RECOGNITION

- Certificate Award of Merit (SpaceML 2021) – Recognized for outstanding contributions to the planetary defense Cameras for Allsky Meteor Surveillance (CAMS) research project.
- Certificate of Mentorship (Learnable 2025) – Recognized for guiding backend development interns during the 2024/25 Learnable Internship, successfully leading a student group to project completion.
- HNG9 Finalist Certification (Zuri Team Ltd 2023) – Ranked among the top 300 out of 11,000 participants in the HNG9 global internship program.

EDUCATION

Quantic School of Business and Technology

December 2025 – January 2027

Master's, Software Engineering

Federal University of Technology Minna, Nigeria

February 2014 – November 2019

Bachelor's, Mechanical Engineering

RECENT PROJECTS

Escrow Service Bot

- The Escrow Service Bot offers an automated service acting as an escrow platform, able to facilitate a completely safe crypto trade environment on which both the seller and buyer can thrive and do business happily.

PixelAI

- A free AI thumbnail generator built to work with multiple image generation models available on Hugging Face and other open source platforms.

GrindProof (2025 – Present)

- AI goals & routine assistant with custom agent built to help developers stay on track, analyze patterns, and be held accountable.

SKILLS

FastAPI, Flask, Django, Python, AWS, Docker, TypeScript, Data Structures & Algorithms, Linux/Unix, HTML/CSS, Vue.js, MongoDB, MySQL, GraphQL, Solidity, Java, Firebase, JavaScript, Git, MailChimp, React.js, Next.js, Google Cloud Platform, SQL, NoSQL, Pandas, Node.js, Blockchain, LangChain, VLM, Machine Learning, RAG, DevOps, Kubernetes, Terraform, JSON, tRPC, Weaviate, BigQuery, PostgreSQL, Gemini, OpenAI, OpenSearch, OpenCV, ASGI, Grafana, Prometheus, Pinecone, JWT, MCP, Vector Search, Supabase, Agile, Mentorship.