

SHUAIB AFEGBUA

SOFTWARE ENGINEERING LEADER, MANAGER AND ARCHITECT

CONTACT

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Highly motivated software engineering professional with years of experience delivering high-performing, scalable software applications across diverse industries and adept at working across the entire development stack. Proven ability to lead, manage and collaborate effectively to solve complex business problems.

Software Architecture Design / Software Engineering / Engineering Management / Project Management / Stakeholders Management / Team Leadership / Performance Management / Payments and Fintech / System Design/ Generative AI and ML/ People Management

TECHNICAL SKILLS

Programming languages: Dart, Elixir, Golang, Java, TypeScript and Python

Frameworks, Tools & libraries: Phoenix, AldonisJS, NestJS, Spring Boot, Erlang/OTP, GoKit, GIN, Flutter, GraphQL.

Databases: Clickhouse, Couchbase, CouchDB, DuckDB, Elasticsearch, Kibana, Logstash, MongoDB, MySQL, Orient DB, PostgreSQL

Other skills: ArgoCD, AWS Services, Docker, Git, Google Cloud, Grafana, Linux, Property Based Testing, Prometheus, Pulumi, Signoz.

WORK EXPERIENCE

Software Engineering Manager (2024 – Present).

LocAI/Actualize, Abu Dhabi, UAE

As a Software Engineering Manager at LocAI for AI Productivity Suite, I successfully led and scaled a team of 18+ engineers across three teams, driving the development and delivery of high-quality AI-powered products. My role encompasses technical leadership, team management, strategic planning, and process optimization, ensuring that engineering efforts aligned with business goals and delivering impactful solution.

- **Technical Excellence:** Provided hands-on technical leadership in system architecture, code reviews, and complex problem-solving, ensuring scalability, security, and performance of AI-driven solutions. Advocated the adoption of modern tools and relevant technologies, improving the engineering development efficiency by 50%.
- **Transformational Leadership:** Championed comprehensive overhaul of the sprint process, empowering the development team to take ownership and driving a remarkable 90% improvement in milestone delivery.
- **Stakeholder Collaboration:** Partnered closely with product managers, designers, and executives to align engineering efforts with business goals. Delivered regular updates to senior stakeholders, ensuring transparency and alignment on project status, risks, and outcomes.
- Led end-to-end delivery of multiple AI-powered productivity tools, including SLIDEZ an AI Presentation Generator (reducing manual effort by 70%), Mofkrah an AI Note-Taking App (boosted user meeting efficiency by 40%), and QLMI, an Arabic Grammar Tool (achieved 90% performance gains with features like text completion, summarization, rephrasing, and tone detection).
- **AI/ML Research & Innovation:** Orchestrated research in critical AI and machine learning domains, including TTS, STT, prompt engineering, model evaluation, transcription, image generation, and semantic search, and collaborated with engineers to implement these functionalities, driving business value and advancing technological capabilities.
- **Team Leadership & Growth:** Successfully recruited, onboarded, and mentored a diverse team of engineers, fostering a culture of collaboration, innovation, and continuous learning. Established structured career development plans, leading to higher team retention, internal growth, and increased engineering performance
- **Quality & Security:** Transformed engineering practices by enforcing test-driven development (TDD) and significantly improving code coverage in a previously untested codebase. Established robust QA processes, including automated testing frameworks,

reducing post-release defects. Ensured compliance with industry standards and implemented security best practices to safeguard company and user data.

- **Crisis Management:** Led incident response efforts to resolve high-impact outages within SLA, minimizing downtime and customer impact. Unblocked teams by resolving technical and interpersonal challenges, addressing conflicts, and supporting HR-related matters like workload balance and career growth, ensuring a motivated and high-performing team.
- **Strategic Impact:** Played a pivotal role in shaping the product's technical roadmap, aligning engineering priorities with long-term business goals. Spearheaded the scaling of the engineering team to support rapid product growth, ensuring seamless delivery.

Principal Engineering Lead (2022 – 2024).

The Arcadia Group, Texas, USA

Architected and implemented the company's payment processing application and API. Led the engineering team in developing and maintaining a high-performing and reliable codebase. Effectively communicated project scope, goals, and deliverables to stakeholders, processors, and external partners.

- Architected and implemented The Arcadia Group's payment processing application and API, adopting CQRS and Event Sourcing architecture to enable scalability, auditability, and fault tolerance. This architecture supports processing millions of transactions daily with 99.99% uptime, while providing a complete audit trail and seamless system recovery through event replay.
- Successfully delivered the Payfluent platform within an aggressive timeline, overcoming prior unsuccessful attempts spanning three years and bringing the project to fruition.
- Collaborated with cross-functional teams (Product, DevOps, Security) to design a scalable and secure architecture, driving the adoption of Docker and Kubernetes for containerization, which improved deployment speeds and delivery process.
- Led sprint planning and project scoping sessions, defining clear objectives, user stories, and achievable goals for each sprint.
- Implemented a comprehensive suite of features for Payfluent, including card processing, merchant account management, transaction & customer management, invoicing, two-factor authentication, webhooks, IP whitelisting, API key management, and checkout pages. This resulted in a 15% improvement in code quality and a reduction in maintenance costs.
- Managed stakeholder engagement along with processors and external partners, ensuring alignment on project goals and delivering on all commitments.

Software Engineering Lead, Payments and Digital Wallets (2019 – 2022).

CAFU, Dubai, United Arab Emirates

Oversaw designing and development of payments orchestration infrastructures. Wrote quality code, contributed to architectural decisions, and deployed completed systems to production. Led the tech team for CAFU supply and payments, facilitated one-on-one sessions with team members, performed peer reviews, planned, and conducted interviews for potential hires, developed action plans, and wrote appraisals.

- Led the development and implementation of CAFU's Payments Infrastructure, significantly increasing the company's payment acceptance rate, reducing transaction review and audit times, and integrating new payment channels such as Apple Pay.
- Architected and built CAFU's Digital Wallet Products, directly contributing to an annual net revenue increase of over \$13 Million USD.
- Served as Lead Engineer for Payments and Digital Wallets, owning key performance metrics including Payment Acceptance Rate, Chargeback Rate, Payments Volume, Service Uptime, and Latency.
- Designed and delivered scalable FinTech solutions, leveraging expertise in Financial Systems, and System Design Methodologies to drive business growth and operational efficiency.
- Demonstrated strong leadership and stakeholder management, effectively collaborating with senior-level stakeholders and leading cross-functional teams to deliver high-impact projects.

Cofounder and CTO (2017 – 2019).**Code Kraft Powershop, Abuja, Nigeria**

Co-founded and served as CTO of Code Kraft/Powershop, leading the development and implementation of the company's technology strategy to align with business goals. Designed, developed, and deployed high-quality software systems, leveraging emerging technologies and improved company product offerings.

- Implemented a highly available system for a nationwide recruitment exercise, processing thousands of applications concurrently with zero downtime and achieving 100% success.
- Led the development and deployment of a biometric software system for the national pension verification exercise within a three-week timeline, resulting in the complete elimination of ghost pensioners.
- Built a mobile app platform for electricity vending across 40 locations using flutter, complementing the existing web platform and increasing the sales success rate by 55%. Improved user experience by 80% through features like one-time purchases and "remember last purchase" functionality

Information Systems Specialist (2014 – 2017)**Cambridge Education, Abuja, Nigeria**

Developed and managed day-to-day operations of web-based internal and external communication networks, including websites, intranets, and document repositories, ensuring seamless functionality and accessibility.

- Oversaw the deployment of electronic learning systems in schools, achieving 100% success in implementation and adoption.
- Assessed and adopted emerging technologies, such as reactive programming and improved the reliability and scalability of internal document management systems by two-thirds.
- Reduced computation time for measuring the impact of intervention policies in the education sector across six Nigerian states by 90%, through the development of an online data collection and aggregation tool.
- Streamlined financial processes by implementing an electronic payment system for the Civil Society Marketplace Workshop, eliminating the tedious process of bank payment reconciliation and ticket generation for participants.
- Developed a web-based accreditation system to fully automate the external accreditation process for colleges of education in Nigeria, enhancing efficiency and reducing manual effort.

Web Manager (2019 – 2014)**Mott Macdonald, Abuja, Nigeria**

Designed and developed software information systems, including websites, intranets, and portals, providing technical guidance and overseeing the implementation of strategic partner projects.

- Created and managed the most successful web portal for DFID education intervention programs in sub-Saharan Africa, utilizing user-focused techniques to achieve over 20 million downloads of program resources.
- Enhanced internal communication workflows by 70% by developing an intranet system, conducting user requirements gathering, project planning, design, implementation, and testing.
- Developed a contact database with advanced search functionalities and a user-friendly frontend, effectively managing over 5,000 partner contacts and streamlining internal and external communication networks.

EDUCATION

Ahmadu Bello University, Zaria	M.Sc. Computer Science
University of Abuja, Gwagwalada	Masters, International Relations and Diplomacy
Ahmadu Bello University, Zaria	B. Tech. Computer Science and Mathematics

RECENT PROJECTS

<https://github.com/shubie> <https://hubofhubs.com/> <https://www.payfluent.io/> <https://condosse.com> <https://app.qlmi.ai/>
<https://app.mofkrah.ai/en> <https://www.cafu.com> (payments infrastructure)