Idris Adenopo

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Transferrable Iqama available

Senior Software Engineer with over 7 years of experience and a strong product mindset, passionate about building customer-centric solutions while ensuring technical excellence. Skilled in full-stack development, cloud infrastructure, and improving team efficiency by fostering better collaboration.

Experience

*Senior Software Engineer at **Aajil** (October 2025 - Present)*

Fintech start-up providing Buy Now Pay Later solutions to Saudi SMEs

`Python` `FastAPI` `Django` `Celery` `PostgresSQL` `React` `Vite` `TypeScript` `GCP` `Docker` `Redis` `GitLab CI` `Scrum`

- Led the development of the Deal Processing platform which processes SAR 20 million worth of deals monthly
- Improved the deal processing system by addressing operational pain points, reducing manual engineering interventions by over 90%
- Applied non-functional requirements including Sentry error reporting, Slack alerting, and metrics dashboards, improving observability and incident response
- Introduced and enforced automated testing practices as part of the development process, reducing bugs in production and improving release confidence
- Mentored a junior engineer through onboarding and provided ongoing guidance, raising the quality of their output

*Senior Software Engineer at **Noda/Infogrid** (December 2023 - May 2025)*

Building-tech scale-up focused on sustainability, building efficiency and compliance

`Python` `FastAPI` `React` `MUI` `React Testing Library` `TypeScript` `GraphQL` `MySQL` `AWS` `SQS` `SNS` `Terraform` `Cube` `DBT` `Docker` `GitHub Actions` `Kanban`

- Built the Reporting feature for a greenfield Smart Cleaning product, allowing users to monitor and report on cleaning performance, and take decisions backed by data
- Integrated near real-time IoT data streams into the Smart Cleaning platform, processing of hundreds of data points per device per minute, facilitating timely notifications and increased cleaning efficiency
- Contributed to scaling the team by participating in the hiring process, ensuring the acquisition of top engineering talent
- Authored detailed documentation as part of on-call rota duties, ensuring that solutions to newly encountered issues were well-documented, enabling smoother incident resolution for future on-call engineers
- Represented team concerns in leadership forums, securing actionable commitments from senior leaders to address key issues, enhancing team morale and fostering a culture of trust

*Full Stack Engineer at **Noala** (May 2023 - October 2023)*

Tech-for-good startup with 6 Engineers, bridging the gap between Speech and Language Therapists and clients

`NextJS` `NestJS` `Angular` `Tailwind CSS` `Cypress` `Storybook` `TypeScript` `MySQL` `AWS` `Docker` `Scrum` `Kanban`

- Pioneered pair programming which enhanced code review efficiency by 100%, minimising bugs and rework
- Developed a patient portal with digital exercises, leading to a 28% speech improvement in children after therapy
- Achieved a 100% reduction in UI complaints by implementing cost efficient manual UI testing before customer releases
- Built a therapist portal for efficient patient management, achieving daily therapist engagement

*Full Stack Engineer at **Hurdle** (September 2021 - February 2023)*

Diagnostics-as-a-Service scale-up offering comprehensive health diagnostic testing

`Node.js` `Express` `MySQL` `MongoDB` `React` `MUI` `PHP` `Laravel` `AWS` `API Gateway` `Lambda` `SQS` `SNS` `ECS` `Serverless` `Jest` `Docker` `Scrum`

- Led the development of a template for services in a distributed microservices architecture, reducing the development-to-deployment time from one week to one day
- Migrated functionality from a Laravel monolith to microservices, maintaining the PHP codebase while identifying and resolving critical bugs
- Collaborated on the design and development a front-end tool that reduced the time to launch new biomarker-based products from weeks to just 5 minutes
- Initiated a strategy to enhance deployment frequency, resulting in over a 50% increase in error-free releases
- Instituted an efficient process for documenting asynchronous APIs, eliminating inter-team dependencies, and facilitating parallel development

*Software Engineer at **Jaguar Land Rover** (June 2018 - September 2021)*

Globally recognised automotive manufacturer striving for tech innovation

`Node.js` `Express` `Python` `MongoDB` `Mongoose` `API Gateway` `Lambda` `SQS` `SNS` `EventBridge` `Step Functions` `EC2` `ECS on Fargate` `Cognito` `CDK` `Serverless Framework` `CloudFormation` `React` `Redux` `Scrum`

- Spearheaded in-house cloud and telematics development at JLR, utilising customer vehicle data for innovative feature development and enhanced vehicle security
- Constructed RESTful APIs for leveraging vehicle data, enhancing mobile apps and B2B services
- Established a rapid prototyping system, reducing concept-to-prototype time by 85%
- Contributed to foundational framework libraries, ensured code quality, administered AWS accounts for user management, and implemented DevOps pipelines
- Improved charging experience in a wireless charging Jaguar I-Pace prototype using a custom web app, contributing to program success

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Education

*B.Eng. Electronic Engineering at the **University of Warwick** (October 2015 - June 2018)*

- Graduated with a 2:1 degree

Projects and Achievements

Publication of Machine Learning Final Year Project

Completed a third-year project titled '*RF energy modelling using machine learning for energy harvesting communications systems*,' published in Wiley Online Library's International Journal of Communication Systems. (Link to Publication)

Technologies used: **Python**, **scikit-learn**, **matplotlib**, **pandas**, **NumPy**

limber Project

A voice-first triage app for office-strain symptoms, built on LiveKit Agents and OpenAI's gpt-realtime, with a server-side safety screen that routes emergent cases to a deterministic emergency script and others to self-care or a clinician finder.

Technologies used: **Python, LiveKit, OpenAI Realtime, React, Vite, TypeScript, Docker, Turborepo**

limber Project Demo | limber Project GitHub

CharGraph Project

Developed using NextJS and Groq, this app uses an LLM to analyse interactions between characters in a book, and visualises the interactions on a network graph.

Technologies used: **NextJS, Groq, D3.js, Redis, shadcn, Tailwind CSS**

CharGraph Project Demo | CharGraph Project GitHub

Certifications

AWS Certified Cloud Practitioner | Certified Scaled Agile Framework (SAFe) Practitioner