AHMED ALSAMMARAI

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TARGET ROLE: Backend Engineer / Full-Stack Engineer (Python, Django, JavaScript, React)
AVAILABILITY: Remote | Immediate Start

Full-Stack Web Development | Backend Engineering & API Design | Database Design & Management

Full-stack Software Engineer specialising in Python, Django, JavaScript and React, experienced in building secure, scalable web applications using modern backend and frontend technologies. Experienced in developing full-stack projects including a federated identity platform and a real-time e-learning system, with strong focus on backend engineering and API design.

Technical Summary: Python, Django REST Framework, JWT Authentication, REST API Design, Microservices (small services), React (Hooks, State Management), PostgreSQL, AWS (RDS, S3), Docker (working familiarity), CI/CD fundamentals, Cloud Deployment, Web Security, Real-Time Systems (Django Channels, Redis).

Certified in AI Engineering and Data Science (IBM) as well as IT Support (Google), with a solid foundation in modern software practices. Brings a unique combination of technical proficiency and leadership experience as former Director of a multi-site retail business, driving digital transformation and delivering operational efficiencies.

CORE SKILLS

JavaScript Development | Python Programming | React Framework | Django REST Framework | API Integration | Database Management | PostgreSQL / MySQL | HTML & CSS | Git Version Control | Cloud Deployment | Real-Time Applications | Web Security Practices | System Design | E-Commerce Platforms | Digital Transformation | Project Leadership | Vendor Negotiation | Operations Management | Data Analysis | AI Engineering

KEY VALUE OFFERINGS

- **Full-Stack Development Expertise:** Brings hands-on experience in building scalable web applications using Python, JavaScript, React, and SQL databases, capable of delivering secure, user-focused solutions end-to-end.
- **Backend Engineering Strength:** Specialises in developing RESTful APIs, authentication workflows, and backend systems that ensure reliability, security, and seamless integration with front-end applications.
- **Proven Digital Transformation Leadership:** Successfully led modernisation initiatives in retail operations, implementing POS, e-commerce, and inventory systems that improved efficiency and enabled growth.
- **Strong Project Delivery Record:** Delivers complex software projects from concept through deployment, demonstrated through successful academic and personal projects, including an SSO platform and an e-learning platform.
- **Cloud & DevOps Familiarity:** Experienced with cloud-based deployments (AWS RDS, Google Cloud Storage, Render), version control (Git), and modern development workflows that support scalable solutions.

PROFESSIONAL EXPERIENCE

Director   **Dec 2013 – Sep 2025**
Partica | London, UK

- Directed operations and financial performance of up to five retail outlets, overseeing £2M annual turnover and managing an organisation of ~50 employees.
- Supervised 8–10 store managers across multiple locations, ensuring effective recruitment, training, and performance management to sustain high customer service standards.
- Negotiated strategic rental contracts and supplier agreements, securing favourable terms that significantly reduced overhead costs and improved gross margins.
- Implemented digital transformation strategies by migrating from traditional Casio tills to Vend (Lightspeed) POS and integrating with Shopify, streamlining inventory management and online sales.
- Expanded business footprint from three to five stores, driving revenue growth to £2M annually through strategic market positioning and operational improvements.
- Restructured store portfolio by closing underperforming sites and launching new locations in stronger markets, maintaining profitability and long-term sustainability.

PROJECTS

Share Aware: Federated Identity & SSO Platform

Technologies: *Python, Django, DRF, JWT, React, Chakra UI, PostgreSQL, AWS RDS, Render, Git*

- Designed and built a full-stack web application introducing a privacy-first alternative to traditional Single-Sign-On systems, enabling secure, contextual identity management.
- Developed a decoupled architecture with Django REST Framework backend and React frontend, implementing JWT-based authentication and RS256-signed tokens for secure third-party integrations.
- Engineered a novel consent-driven workflow, requiring explicit user approval for each data-sharing request, significantly reducing risks of replay attacks and unconsented data leaks.
- Validated usability through structured testing (System Usability Scale), achieving an excellent score of 86.07 and confirming high trust and user adoption potential.

Full-Stack E-Learning Platform

Technologies: *Python, Django, DRF, Django Channels, WebSockets, Redis, JavaScript, Bootstrap, PostgreSQL, Google Cloud Storage, Render, Git*

- Built a comprehensive, monolithic e-learning platform allowing teachers to create courses and students to interact in real-time through chat, notifications, and feedback.
- Integrated Django Channels and WebSockets to enable live chat and notifications, leveraging Redis for real-time event handling and ensuring responsive user interactions.
- Implemented advanced role-based permissions with explicit access controls, ensuring robust and secure separation between teacher and student functionalities.
- Delivered full CRUD capabilities for course management, including video integration and cloud-hosted content storage, supported by more than 100 automated tests to guarantee quality and reliability.

EDUCATION & PROFESSIONAL DEVELOPMENT

BSc Computer Science | First Class with Honours
University of London | London, UK | Completion Date: Sep 2025

IBM – AI Engineering Specialisation | Sep 2024

IBM – Data Science Specialisation | Sep 2024

Google – IT Support Specialisation | Apr 2022

University of Oxford – Artificial Intelligence Programme | Aug 2020

TECHNICAL SKILLS

Programming & Frameworks: Python | JavaScript | React | Django | Django REST Framework
Databases: PostgreSQL | MySQL
Web Development: HTML5 | CSS3 | Bootstrap | REST APIs
Cloud & DevOps: AWS RDS | Google Cloud Storage | Render | Git | Version Control
Other Expertise: Real-Time Applications | System Design | E-commerce Platforms | Data Analysis

LANGUAGES

English | Native/Fluent

Romanian | Intermediate (B1/B2)

Arabic| Advanced (C1)