

Yahya Mohamed

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PERSONAL SUMMARY

First-Class Computer Science graduate from the University of Leicester with commercial experience building and deploying full-stack web applications. Proficient in React, Node.js, and MongoDB with hands-on cloud infrastructure experience across AWS (EC2, EKS, ELB, DynamoDB) and Docker. Demonstrated ability to own features end-to-end, from architecture decisions through to production deployment. Currently the sole developer on a live web application at Al Furqan Centre, reporting directly to management.

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, C/C++, SQL, HTML, CSS
Frameworks & Libraries: React, Node.js, Express.js, Flask, Spring Boot
Cloud & DevOps: AWS (EC2, EKS, ELB, DynamoDB), Docker, Kubernetes (EKS), Linux (Ubuntu)
Databases: MongoDB, MySQL, DynamoDB
Tools & Methods: Git, GitHub, REST APIs, ROS2, Agile / Scrum, Object-Oriented Design
Infrastructure: Proxmox VE, network configuration, wireless access points, PTZ camera systems, hardware procurement

EXPERIENCE

Software Developer & IT Coordinator

Sep 2025 – Present

Al Furqan Centre

Leicester, UK

- **Progressed from volunteer to hired staff within 3 months**, trusted with increasing technical responsibility across IT infrastructure and software development.
- Sole developer on a live web application, implementing new features and resolving bugs in a production environment, reporting progress and strategy directly to management.
- Leading the digital marketing of the web application alongside development, managing deployment cycles and tracking user engagement to inform iterative improvements.
- Designed and built application features independently through the full SDLC — from requirements gathering and architecture decisions through to deployment and testing.
- Implemented a virtualised server environment using Proxmox VE; produced detailed technical documentation and configuration logs for auditing and administrative standards.
- Managed end-to-end procurement and assembly of hardware assets, ensuring all technical configurations were delivered to specification and on schedule.
- Installed and configured a PTZ camera system including controller setup and IP network integration; deployed and optimised wireless access points resolving site-wide connectivity issues.
- Acted as a technical point of contact, liaising with internal staff and external contractors to coordinate infrastructure work and resolve technical queries.
- Produced video content and designed promotional materials as part of the media team before transitioning to a technical and software development focus.

Car Valet (Seasonal)

Summers 2023 – Present

Next

Leicester, UK

- Boosted valeting efficiency by 20% by reorganising supply layout and streamlining team workflow, reducing average processing time per vehicle.
- Maintained 100% on-time completion of daily targets across every shift through consistent task prioritisation and time management.

PROJECTS

FleetManager | *React, Node.js, MongoDB, Express.js, Docker*

Aug 2025 – Present

- Built a full-stack fleet management web application to track company vehicles with live data including mileage, lease status, fuel levels, and valet dates.
- Developed CRUD functionality and advanced search and filter features, improving data accessibility and streamlining fleet tracking workflows.

- Containerised the application using Docker and managed the full SDLC from design through to deployment, including a responsive React front end and REST API backend.

LLM-Controlled Robot Car | *Python, ROS2, Ubuntu, HTML, CSS, JavaScript* Sep 2024 – May 2025

- Integrated OpenAI's LLM with ROS2 on Ubuntu to build a robot car simulation converting natural language and image prompts into real-time movement commands.
- Developed a Python-based GUI-to-LLM pipeline achieving an average response latency of 2.7 seconds; built a voice-enabled UI and CLI for accessible robot control.
- Presented project outcomes through a live technical demo to faculty, demonstrating LLM-robotics integration and system architecture decisions.

Cloud-Hosted Whiteboard | *AWS EC2, EKS, ELB, DynamoDB, Docker* Nov 2024 – Dec 2024

- Architected a scalable multi-node AWS environment using EC2, EKS, and an Elastic Load Balancer, with Docker containerisation for cloud-native workloads.
- Configured DynamoDB for state replication to maintain real-time consistency across all users during collaborative whiteboard sessions.
- Diagnosed and resolved a critical real-time consistency bug hours before the deadline by implementing sticky-session routing at the load balancer, restoring full functionality and securing a high 2:1 project grade.

Gamified Skills-Building Web App | *Spring Boot, HTML, CSS, JavaScript* Jan 2024 – May 2024

- Led an 8-member team as Scrum Master, managing sprints and daily standups to deliver a gamified learning platform on time.
- Built responsive login and course pages using Spring Boot and front-end technologies, incorporating badge-based UI to improve course completion rates.

EDUCATION

University of Leicester Leicester, UK

BSc Computer Science (First-Class with Honours) | Average: 78% Sep 2022 – Jul 2025

- Relevant modules: Cloud Computing, Software Engineering Project, Data Structures & Algorithms, Database & Domain Modelling, Operating Systems & Networking, Software Architecture & System Development