Sultan Fohpa

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EDUCATION

King's College London **London, UK**
Bachelor of Computer Science with Honours 2022 – 2026

Handsworth Grammar School for Boys **Birmingham, UK**
A-levels 2020 – 2022
Mathematics A, Chemistry A*, Physics A*

EXPERIENCE

Dissertation Project **London, UK**
ABM Developer October 2025 – March 2026

- Developed a Python-based simulation framework to model complex system dynamics, implementing rule-based behaviours and spatial algorithms to analyse emergent, multi-variable system behaviour.
- Ran large-scale simulation experiments across multiple model configurations, using parameter optimisation and sensitivity analysis to evaluate model robustness.
- Integrated experimental imaging datasets into the simulation workflow, developing data-processing pipelines for model calibration and validation.
- Collaborated with researchers from computational and experimental disciplines to deliver a robust software platform.

KCL Regents (American Football) **London, UK**
Club Secretary September 2025 – July 2026

- Coordinated logistics for 11 fixtures, organising transport and operational checklists for 50+ team members.
- Managed all official communications via the club's central email account, acting as primary liaison between external organisations, university student's union, and internal members.
- Co-lead recruitment and review of coaching staff and players, fixture planning, and club events organisation.

University Research **London, UK**
AI Research Assistant June 2024 – August 2024

- Built Python-based quantitative model validation pipelines (PyTorch, Scikit-learn) to assess robustness, bias and reliability of predictive models on multimodal surgical datasets.
- Designed performance metrics and validation procedures for model outputs, documenting methodology, assumptions and limitations in line with responsible AI governance standards.
- Performed quantitative analysis of experimental results across multiple model configurations to support data-driven decision-making.

University Project **London, UK**
App Developer January 2024 – March 2024

- Implemented a full-stack calorie tracking application using Node.js, Express, and MongoDB.
- Developed RESTful backend services to manage user data, authentication workflows, and application logic.
- Designed database schemas and optimised data storage and retrieval processes.
- Automated unit and integration testing using Jest and Supertest for software reliability and maintainability.

SKILLS

Programming Languages: Python, C++, Java, Scala

Tools & Libraries: NumPy, Pandas, PyTorch, Scikit-learn, SQL, Excel