

Zafer Ahmad

Software Engineer

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EDUCATION

- **University of Greenwich** London, UK
BSc (Hons) Computer Science — First Class Sep 2022 – Jul 2025

EXPERIENCE

- **Freelance PC Specialist/Builder** London, UK
Technical Specialist 2022 – Present
 - **Custom PC Builds:** Built and configured 25+ custom PC setups tailored to specific client performance needs and budgets for gaming and productivity.
 - **Technical Troubleshooting:** Diagnosed and resolved hardware and software issues through systematic debugging, improving system stability and reducing repeat failures.
 - **Client Communication:** Advised clients on upgrade paths, system compatibility, and future-proofing strategies while maintaining clear communication and timely support.

TECHNICAL PROJECTS

- **AI-Driven Dynamic Study Planner with Personalised Quiz Generation** 
Django, React, RAG, LangChain, DeepSeek-8B, Supabase, GCP
 - **Full-Stack Development:** Built a production-ready web application with a **Django** REST backend and **React** frontend, implementing secure **authentication**, role-based access, and responsive UI.
 - **AI System Architecture:** Designed a **Retrieval-Augmented Generation (RAG)** pipeline using **LangChain** and a locally hosted **DeepSeek-8B** model to generate quizzes from user-uploaded documents.
 - **Adaptive Algorithms:** Implemented performance-aware scheduling logic that dynamically adjusts study plans based on quiz accuracy, attempt history, and topic difficulty.
- **Machine Learning Cancer Diagnosis System** 
Python, scikit-learn, Random Forest, Pandas, Statistical Analysis
 - **ML Pipeline Engineering:** Developed an end-to-end machine learning pipeline including data preprocessing, feature engineering, Random Forest optimisation, and rigorous statistical evaluation.
 - **Model Evaluation:** Improved diagnostic accuracy through hyperparameter tuning and validation strategies, demonstrating healthcare-focused ML system design.
- **London Tube Route Planner** 
Python, Graph Algorithms, Dijkstra, Tkinter
 - **Pathfinding Algorithms:** Implemented shortest-path algorithms to compute optimal underground routes, improving journey efficiency and reliability.
 - **User Experience:** Enhanced a Tkinter-based GUI to improve usability and clarity of route visualisation for end users.
- **Java Real-Time Chat Application** *Java, Swing, Sockets, Multithreading, Client–Server Architecture*
 - **Concurrent Systems:** Implemented a multithreaded client–server architecture supporting concurrent users, real-time message broadcasting, and connection lifecycle management.
 - **Networking:** Designed socket-based communication protocols with robust error handling to maintain responsiveness and reliability.

TECHNICAL SKILLS

- **Languages:** Python, Java, JavaScript, SQL, R, Racket, Scheme
- **Frameworks & Libraries:** Django, React, LangChain, scikit-learn, Pandas, NumPy
- **Tools & Technologies:** Git, Docker, GCP, Supabase, PostgreSQL, REST APIs, Linux
- **Core Competencies:** Data Structures & Algorithms, Machine Learning, System Design, UI/UX, Debugging & Optimization