

MUHAMMAD ASAD MAJEED

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Education

University College London

Bachelor of Science in Computer Science - First Class Honors

Sep 2024 – June 2027

London, United Kingdom

Achievements: 100% Tuition Scholarship - Senior Programming Mentor, Senior Transition Mentor, Undergraduate Teaching Assistant for Principles Of Programming and Object Oriented Programming.

Relevant Modules: Algorithms, Theory of Computation, Discrete Mathematics, Security, Software Engineering, Computer Architecture and Concurrency, Object-Oriented Programming, Logic.

Cedar College

*Cambridge International A Level - 4A*s (Physics, Mathematics, Computer Science, Chemistry)*

Aug 2022 – July 2024

Karachi, Pakistan

Achievements: 100% Merit Scholarship Awardee, Treasurer of the Student Council, Lead Organizer of Cedar Eats and Scinnova.

Experience

Google

Software Engineering Intern – Engineering Velocity Insights, Android Platform & Devices

June 2026 – September 2026

London, United Kingdom

- Building a race-condition-safe asynchronous upload pipeline for Android's atest/Tradefed infrastructure, using a background daemon to parallelize result uploads and accelerate the android testing process.

Cuvama

AI Engineering Intern

September 2025 – Present

London, United Kingdom

- Designed a performance-critical information retrieval pipeline with a strict 10s SLA by parallelizing independent retrieval and extraction stages, balancing reliability and latency at scale.
- Developed an LLM-driven diagnosis engine that analyzes full prompt execution chains to identify failure points and propose fixes, reducing debugging time by 60% and improving output consistency to >90%.
- Built a product analytics dashboard ingesting raw Userpilot CSV exports, structuring and aggregating data into intuitive views for product and account teams to analyze feature adoption, usage patterns, and customer behavior.

University College London

IT Specialist

August 2025 – Present

London, United Kingdom

- Provided first line IT support by troubleshooting hardware, software, and connectivity issues for students and staff, ensuring a >95% ticket resolution rate.
- Assisted users with account access, printing services, and general IT queries, while maintaining clear communication and excellent customer service.

Projects

Virtual Situation Room

March 2026

- Built an end-to-end AI crisis reporting system using LangGraph and Azure OpenAI to process 1,100+ documents from global news, UN databases, and relief organizations, reducing situation analysis turnaround from days to minutes.
- Integrated 3 humanitarian data sources GDELT, HDX HAPI, and ReliefWeb with intelligent filtering that mapped 13 humanitarian metrics to core themes, improving retrieval precision.
- Designed a 10-stage AI pipeline that extracted key data points, scored impact topics, generated SMART indicators, and produced grounded dual-view reports for analysts and field coordinators with automated bibliography generation.

Finance Tracker

July 2025

- Architected a full-stack personal finance platform, integrating the Plaid API to provide users with a unified view of their multi institution financial data, secured with AWS Cognito and JWT-based authentication.
- Expanded the platform's reach by developing a cross-platform mobile application, for a consistent user experience.

AI Job Application Assistant

July 2025

- Engineered a RAG pipeline with FastAPI, delivering personalized, AI-generated application content within 3 seconds.
- Developed an intelligent selection module using spaCy NLP that improved the relevance of selected evidence by over 75% compared to a baseline keyword search, ensuring highly strategic AI output.
- Built a secure Chrome Extension, ensuring user privacy by leveraging 100% local storage for all personal profile data.

WonderRoute

June 2025

- Built a full-stack web app using React, Node.js, Express, and Gemini APIs for dynamic, multi-user itinerary generation.
- Integrated user personas, location syncing, and real-time route optimization by implementing robust API communication, middleware logic, and asynchronous request handling between the frontend and backend.
- Secured 2nd place at the Google AI Hackathon 2025 amongst 55 shortlisted students out of 450 applicants.

Technical Skills

Languages: Python, C, Java, JavaScript, TypeScript, SQL, Haskell.

Web Technologies: HTML, CSS, React, Node.js, Express.js, REST APIs.

Frameworks and Libraries: Langchain, spaCy, Flask, NumPy, Scikit-Learn, PyTorch, OpenCV, Puppeteer, Selenium.

Tools and Technologies: VS Code, IntelliJIDEA, Arduino, Cursor, JupyterLab, Linux, Git, GitHub, Vercel, Render, Docker, AWS (Cognito), PostgreSQL, Maven, SpringBoot.