

MUHAMMAD ASAD MAJEED

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Education

University College London

Sep 2024 – June 2027

Bachelor of Science in Computer Science - First Class Honors

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.

Cedar College

Aug 2022 – July 2024

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

Karachi, Pakistan

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

Experience

Google

June 2026 – September 2026

Software Engineering Intern

London, United Kingdom

- Cut Android test-processing P90 latency 67.6% by parallelizing uploads with a streaming daemon using TCP IPC, non-blocking I/O and bounded concurrency; reclaimed 280 developer hours/month and improved global P90 by 3–5%.
- Uncovered an organization-wide production bug silently dropping 60% of test results over 36 hours despite HTTP 200 responses; classified highest priority/severity, the discovery prompted a formal engineering postmortem.
- Contributed to Google's internal Award-winning org-wide API migration project by owning the migration of an Android testing service, resolving a high-priority production issue caused by legacy API throttling.

Cuvama

September 2025 – April 2026

AI Engineering Intern

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

August 2025 – Present

IT Specialist

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.
- Resolved account, software, and internal service issues, while delivering clear technical guidance to end users.

Projects

Deal Breaker

June 2026

- Won 1st place at the Antler x Google hackathon by building an autonomous seller agent for AI-to-AI travel negotiations, beating the organizing company's own benchmark scores.
- Integrated 5 live MCP travel servers in Python to search inventory, normalise listings, and generate structured offers.
- Designed a 15-round negotiation engine with buyer profiling, dynamic pricing, concession logic, Pydantic validation, JSON logs, and rule-based fallbacks.

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.

WonderRoute

June 2025

- Built a full-stack web app using React, Node.js, Express, and Gemini APIs with user personas, location syncing, and real-time route optimization for dynamic multi-user itinerary generation.
- 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.

Systems: Linux, Concurrency, Multithreading, Asynchronous I/O, TCP/IP, IPC, Distributed Systems.

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: Git, GitHub, Docker, AWS, PostgreSQL, Maven, Spring Boot, Arduino.