Muhammad Asad Majeed

📞 +447766841039 ✉ Email in LinkedIn ○ Github 💼 Portfolio

Education

University College London **Sep 2024 – June 2027**
Bachelor of Science in Computer Science *London, United Kingdom*
Global Undergraduate Scholarship Awardee; First Class Honours in 1st Year.
Relevant Modules: Algorithms, Theory of Computation, Discrete Mathematics, Introductory Math for Computer Science,
Object-Oriented Programming (Java), Principles of Programming (C, Haskell), Design and Professional Skills (Python).

Cedar College **Aug 2022 – July 2024**
Cambridge International AS and A Level *Karachi, Pakistan*
A-Level Grades: 4 A*s in Physics, Mathematics, Computer Science, and Chemistry.
100% Merit Scholarship Awardee; Student Council Treasurer; Head of the Cedar Eats and Scinnova organizing team.

Experience

Software Engineering Intern **June 2025 – August 2025**
Network Freight Solution *Karachi, Pakistan*
- Developed a shipment tracking system using Puppeteer and headless browser scraping, enabling real-time tracking for air shipments for over 200 carriers, reducing manual tracking time by several hours daily.
- Containerized the server using Docker, ensuring consistent environment replication and reducing deployment errors.
- Configured secure cross-origin API requests using Express.js and CORS, enabling seamless communication between the frontend and the Render backend.

Technology and Engineering Intern **July 2025**
Bright Network *London, United Kingdom*
- Explored the UK's leading industries, gaining hands-on insights, skills, and employer connections across technology, business, and innovation from companies such as Lloyds, Google, Cisco, JLR, MI5, and MI6.
- Created an efficient bot-filtering mechanism that identified and blocked problematic IPs with 100% accuracy, helping a startup reduce web traffic and cut hosting costs.

Coding and Robotics Instructor **May 2025 – Present**
BlueShift Education *London, United Kingdom*
- Taught Scratch and Python to KS3 students (ages 11–15) through weekly coding lessons.
- Led hands-on robotics projects using micro:bit and LEGO kits to build problem-solving skills.
- Delivered interactive sessions to groups of 10–15, sparking interest in CS through creative challenges.

Computer Science Outreach Ambassador **February 2025 – Present**
UCL Computer Science *London, United Kingdom*
- Represented UCL CS at multiple outreach events, increasing curriculum awareness in over 100 prospective students.
- Delivered presentations and workshops, using interactive demos to introduce computer science concepts to students.
- Taught basic robotics and Python coding to 50+ students using hands-on kits, encouraging early STEM exploration.

Projects

Finance Tracker | *React, Node.js, PostgreSQL, AWS* **July 2025**
- Architected a full-stack finance platform with Node.js, a PostgreSQL database, and a responsive React frontend.
- Integrated the Plaid API to aggregate financial data from multiple accounts into a unified view.
- Engineered a dynamic dashboard with interactive charts for users to track budgets, analyze spending, and monitor financial health, and implemented robust security using AWS Cognito for user authentication.

AI Job Application Assistant | *Python, FastAPI, JavaScript, HTML, spaCy, Langchain, Google Gemini* **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 | *React, Node.js, Express.js, Google Maps APIs, Gemini AI API, REST APIs, CSS* **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, C++, HTML, CSS, JavaScript, SQL, Haskell, Java.
Tools and Technologies: VS Code, Linux, Git, GitHub, IntelliJ IDEA, Arduino, Cursor, Vercel, Render, Docker.
Frameworks and Libraries: React.js, Node.js, Express.js, REST APIs, FastAPI, Langchain, spaCy, Flask, Tkinter, NumPy, scikit-learn, Matplotlib, Puppeteer, Selenium.
Certifications: CS50x