

SYED ALI ABBAS

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Education

University College London (UCL)

MEng Computer Science - First Class Honours

Achievements: 100% Merit Scholarship

September 2023 – June 2027

London, UK

Cedar College

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

Achievements: 70% Merit Scholarship

August 2021 – July 2023

Karachi, Pakistan

Experience

Systems Engineering Intern

Hewlett-Packard (HP)

October 2024 – March 2025

London, UK

- Developed a RAG pipeline using AI Studio to process business documents in a containerised environment.
- Integrated Llama 3.1 8B for generating responses based on user queries and relevant documents.
- Built a real-time, context-aware interface and implemented model accuracy evaluation methods.
- Developed a comprehensive project website to document architecture, development process, and deliverables.

Full-Stack Developer Intern

June 2025 – July 2025

London, UK

Other Dev

- Built a high-performance real estate platform showcasing 12+ luxury properties.
- Used Astro, React, TypeScript, and Tailwind CSS to deliver a responsive, mobile-first experience with sub-2s load times.
- Integrated dynamic property filtering, GSAP animations, and lead generation flows to enhance user engagement and drive conversions.

Projects

Student Grade Management System

December 2024

- Spearheaded backend development using Java and Spring Boot, achieving 100% test coverage.
- Designed model and controller classes to streamline student data, module registrations, and grades.
- Collaborated in a team of 3, utilising Agile workflows and GitHub for version control.

Patient Data Management System

March 2024

- Developed a Java-based web application to manage and display patient data stored in CSV files, handling over 10,000 patient records.
- Implemented search functionality and data filtering options, reducing query time by 30%.
- Employed Model-View-Controller (MVC) architecture for scalability, modularity, and robust error handling.

Leadership

Robotics and Engineering Wing

September 2021 – March 2023

Karachi, Pakistan

Executive Member

- Organised workshops for 100+ students on robotics and web development, covering circuit building, programming, and HTML/CSS for project documentation.
- Led robotics projects, including building self-balancing, obstacle-avoiding robots, and Bluetooth-controlled cars, promoting the society's hands-on learning culture and attracting 50 new members.
- Constructed automatic light systems using Arduino and installed automated water taps on campus, enhancing the college's facilities.

InterSchool Science Olympiad - ScinnoVA VI

December 2022 – January 2023

Karachi, Pakistan

Head of Robotics & Physics Modules

- Led a team of 10 to design and execute robotics and physics modules, attracting 400+ participants.
- Increased participation by 30% through strategic planning, marketing, and innovative module design.
- Managed social media promotion and event logistics, strengthening leadership, teamwork, and organisational skills.

Technical Skills

Programming: Python, Java, C, Haskell, SQL, JavaScript, HTML/CSS, React, PyTorch, MATLAB, MIPS Assembly

Frameworks and Tools: Spring Boot, Maven, REST APIs, Git, Hugging Face, LangChain, Docker, Agile workflows

Robotics & Embedded Systems: Arduino, ESP32, Sensors & Actuators, Automated Systems

Awards: 2nd Place - Healthcare Hackathon (Carradale Futures), Excellence Award - ScinnoVA VI (for exemplary leadership and module design), Duke of Edinburgh's Bronze & Silver Award

Certifications: AWS Cloud Practitioner, IBM Enterprise Design Thinking Practitioner, IBM Getting Started with Data