Syed Ali Abbas

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Education

University College London (UCL)   **September 2023 – June 2027**

MEng Computer Science – First Class Honours (Year 1 & Year 2)   *London, UK*

Achievements: 100% Merit Scholarship, Programming Tutor

Relevant Modules: Machine Learning for Visual Computing; Machine Learning for Robotics; Introduction to Robotics; Systems Engineering; Software Engineering; Computer Architecture and Concurrency; Research Methods

Cedar College   **August 2021 – July 2023**

Cambridge International A Levels – 4A* (Computer Science, Mathematics, Physics, Chemistry)   *Karachi, Pakistan*

Experience

AI Engineer   **February 2026 – Present**

T3 Consultants   *London, UK*

- Developing an AI evaluation and decision-support MVP benchmarking 1,500+ AI vendors across accuracy, latency, reliability, cost, and integration complexity, enabling data-driven procurement decisions (Python, Nuxt, PostgreSQL).
- Designing a data ingestion layer integrating vendor APIs, usage metadata, licensing and spend data, security certifications, and IT inventory inputs into a unified evaluation dataset.
- Implementing a transparent ROI computation system translating evaluation outputs into defensible metrics, including FTE savings, duplicate spend detection, consolidation opportunities, and payback periods.

Software Development Intern   **December 2025 – January 2026**

Sapiens Nova Academy (Hong Kong)   *Remote*

- Designed a production-grade platform supporting AI, robotics, and entrepreneurship programmes across 6+ countries.
- Implemented secure enrolment and payment workflows using Stripe Checkout and webhooks.
- Developed an AI-powered chat assistant using RAG with Hugging Face embeddings and PGVector, achieving 85%+ query relevance across 200+ programme-specific documents.

Full-Stack Developer Intern   **June 2025 – July 2025**

Other Dev   *London, UK*

- Built a production-ready real estate platform showcasing 12+ luxury properties using Astro, React, and TypeScript.
- Integrated dynamic property filtering, GSAP-based animations, and lead generation workflows to support client inquiries.

Systems Engineering Intern   **October 2024 – March 2025**

Hewlett-Packard (HP)   *London, UK*

- Engineered 3 production-ready RAG pipelines (RFQ analysis, telemetry interpretation, document change detection) processing diverse data formats, including PDFs and Excel files.
- Integrated Llama 3.1 8B into a RAG architecture, leveraging vector retrieval over enterprise datasets to generate context-aware responses from user queries.
- Developed a multi-tab Gradio interface with file upload, real-time chat, and accuracy metrics dashboard.

Projects & Leadership

HatchMark – Blockchain Content Authenticity Platform   **February 2026**

ETH Oxford Hackathon   *Oxford, UK*

- Built a full-stack decentralised application on the Sui blockchain enabling creators to register image ownership using perceptual hashing and immutable on-chain certificates in 36 hours.
- Developed Sui Move smart contracts for ownership registration and stake-based dispute resolution, alongside a Next.js + TypeScript frontend and Chrome extension for real-time verification and AI-generated content detection.

Robotics and Engineering Wing   **September 2021 – March 2023**

Executive Member and Head of Robotics & Physics Modules (Scinnova VI)   *Karachi, Pakistan*

- Organised robotics and web development workshops for 100+ students, covering circuit design and programming.
- Led hands-on robotics projects, including self-balancing and obstacle-avoiding robots, attracting 50 new members.
- Coordinated the InterSchool Science Olympiad (Scinnova VI), designing robotics and physics modules for 400+ participants and increasing participation by 30%.

Skills & Achievements

Programming: Python, Java, C, C++, JavaScript, TypeScript, SQL, Swift, Haskell, MATLAB, MIPS Assembly

Frameworks and Tools: Astro, Next.js, Nuxt, React, Tailwind CSS, Spring Boot, Maven, REST APIs, Docker, Git, PyTorch, Hugging Face, LangChain, PostgreSQL

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: IBM Enterprise Design Thinking Practitioner, IBM Getting Started with Data