

AMAN KUMAR SAH

Computer Science (Artificial Intelligence) Student | Cloud & Software Engineering
+44 7488 917866 · Winchester, UK · aman.k.sah@outlook.com · [LinkedIn](#) | [GitHub](#) | [Website](#)

PROFESSIONAL PROFILE

Computer Science (AI) undergraduate seeking a **graduate cloud** or **technology** role with **BCA**, bringing a year-long software engineering placement delivering React, TypeScript and REST API features for live platforms. Practical project work covers AWS, Terraform, Kubernetes, FastAPI and RAG systems, alongside **Microsoft Azure** Administrator training in identity, networking, storage, security and governance.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL, C++

Cloud & Microsoft: **Azure** administration, AWS, Terraform, Docker, Kubernetes, GitHub Actions

Backend & APIs: FastAPI, Node.js, REST APIs, authentication, RBAC, validation

Frontend: React, Next.js, HTML, CSS, accessibility, responsive UI

Data & AI: RAG, LangGraph, LlamaIndex, Hugging Face, vector search

Delivery: Agile, **stakeholder** requirements, incident response, observability, technical documentation

EDUCATION

BSc (Hons) Computer Science (Artificial Intelligence)

Jan 2024 - Jun 2027

Brunel University London

Expected completion 30 June 2027 | Thick Sandwich mode

Relevant Modules: Algorithms and their Applications; Software Development and Management; Networks and Operating Systems; Usability Engineering; Logic and Computation; Introductory Programming; Group Project

PROFESSIONAL EXPERIENCE

Software Engineer (Placement)

June 2025 - May 2026

Faith Associates

- Built React and TypeScript features for live client platforms, translating **stakeholder** requirements into reusable UI changes and release-tested behaviour against acceptance criteria before scheduled production deployments.
- Integrated REST API flows for authentication, validation and request handling, testing edge cases before release to prevent avoidable defects from disrupting workflows across deployed client platforms.
- Diagnosed defects across React interfaces, API services and database behaviour, tracing faults through service boundaries until customer workflows returned to expected operation and documenting confirmed causes.
- Converted ambiguous **stakeholder** requests into scoped technical tasks, aligning estimates, acceptance criteria and review expectations with non-technical stakeholders before delivering completed releases with delivery owners.

British Muslim Trust Platform Recovery & Handover

- Secured British Muslim Trust's production platform after malicious spam injection, hardening server rules, PHP upload restrictions, XML-RPC blocking and Cloudflare protections while restoring secure access for legitimate users.
- Led handover of a React, TypeScript and Express platform, coordinating source code, environment variables, PM2 deployment, backups, DNS and external developers to preserve service continuity after ownership transfer.

SELECTED TECHNICAL PROJECTS

OpsPilot

- Built OpsPilot as a **cloud** incident-response assistant, provisioning AWS infrastructure with Terraform and Kubernetes while connecting CI/CD, observability and automated remediation workflows for repeatable recovery testing.

TrustRAG

- Developed TrustRAG as a FastAPI RAG service with vector search and role-based access control, returning cited answers only from permitted sources through authenticated APIs and auditable retrieval workflows.
- Added retrieval evaluation, monitoring and **cloud** deployment checks, measuring answer grounding against test queries before each development and review release cycle and documenting retrieval failures.

AWARDS & HACKATHONS

NVIDIA Hack for Impact London - Winner

June 2026

- Won NVIDIA Hack for Impact London by building a DGX Spark decision platform over 55 London datasets, forecasting business performance and TfL-aware actions for operational planning across London.

Google Gemini Live Agent Challenge - Global UI Navigators Winner

April 2026

- Won Google's global Gemini Live Agent Challenge UI Navigator category with Moonwalk, a voice-controlled macOS agent that remembers preferences and automates workflows across desktop applications.

2025 ICPC UK & Ireland Programming Contest

October 2025

- Applied algorithmic problem-solving in C++ with data structures, graph algorithms and dynamic programming, solving judged problems under strict contest time constraints with teammates during the timed regional competition.

ADDITIONAL EXPERIENCE

Research & Development Analyst

Sep 2022 - Nov 2023

Herald Development Platform

- Researched AI-agent architectures combining retrieval, memory, ranking and tool use, shaping practical designs for proactive research assistance across working prototype iterations and documenting architectural trade-offs.
- Applied literature review, hypothesis definition, baseline comparison and controlled testing to evaluate agent behaviour beyond response generation, documenting findings for each iteration and guiding later prototype changes.
- Evaluated retrieval quality, latency, false positives, memory persistence and usefulness, translating experimental findings into changes to retrieval and memory behaviour across documented prototype revisions.

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

Microsoft Azure Administrator Associate (AZ-104) Cert Prep

Completed

Microsoft Press / Brett Hargreaves

- Completed **Azure** Administrator training covering virtual networks, storage, compute, identity, security and governance, strengthening **Microsoft cloud** administration preparation for **graduate technology** roles.

AWS Certified Solutions Architect Associate; Terraform Associate

Credential held

Amazon Web Services / HashiCorp

- Validated **cloud** architecture and infrastructure-as-code knowledge across compute, networking, IAM, Terraform modules and repeatable provisioning used in AWS-backed project infrastructure across **cloud** project environments.

Hugging Face AI Agents Course

2026

Hugging Face

- Built agents with smolagents, LlamaIndex and LangGraph, practising tool use, retrieval, workflow orchestration and systematic evaluation through hands-on implementation exercises across guided course projects.

LEADERSHIP & ADDITIONAL ACHIEVEMENTS

- Earned the Brunel Plus Bronze Award through sustained professional development, employability engagement and extracurricular contribution alongside academic study and practical career preparation.