

# Mujeeb Butt

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 07498290136

 Fully willing to relocate and work across various UK locations.

 Mujeeb Butt

 My Github

## AWARDS

### BSc Computer Degree

University of Hertfordshire

18/07/2025

## SKILLS

### Programming

Python, Java, JavaScript, SQL, Bash

### AI/ML & LLMs

PyTorch, Hugging Face Transformers, TensorFlow, OpenAI API, open-source LLMs (Llama, Mistral), multi-agent architectures (ReAct), LangChain, LlamaIndex.

### NLP & Search

Semantic search, document understanding, summarization, OCR, Information Retrieval (RAG).

### Backend & Architecture

RESTful APIs, Microservices, System Integration, Guardrails/Safety mechanisms for AI.

### Databases

SQL (PostgreSQL), NoSQL (MongoDB), Vector Databases.

### Cloud & DevOps

AWS / GCP, Docker, Kubernetes, CI/CD pipelines, Git/Version Control, Automated Testing.

## CERTIFICATES

- AWS Academy Graduate - AWS Academy Cloud Foundations 

## PROFILE

Software Engineer with a BSc (2:1) in Computer Science. Experienced in building scalable Python backends and integrating LLM-based autonomous agents. Adaptable and eager to build practical, production-ready AI solutions in fast-paced environments.

## EDUCATION

### B.Sc (Hons.) Computer Science 2:1

University of Hertfordshire

09/2022 | Hatfield, United Kingdom

**Key Modules:** Machine Learning, Artificial Intelligence, Database Systems, Internet of Things, Software Architecture.

## PROFESSIONAL EXPERIENCE

### Glinwell Marketing

Software Engineer Intern

08/2025 – 11/2025 | St Albans, England

- Managed automated data retrieval processes within the PROFIT system to synchronize inventory logs with external retailer databases .
- Assisted automation pipelines for supply chain reporting, ensuring that system-generated data for Tesco and M&S was accurate and error-free .
- Optimized data extraction workflows, reducing manual intervention in the retrieval system to ensure faster product distribution .

### Autonomous Multi-Agent Research Assistant |

#### RAG & LLM Orchestration

- **Multi-Agent System:** Built a ReAct-based AI agent using Python and LangChain for autonomous reasoning and dynamic tool use.
- **RAG Pipeline:** Enabled semantic search across complex PDFs using a Pinecone vector database and Hugging Face embeddings.
- **Production API:** Deployed a scalable FastAPI microservice integrating Llama 3.1 via Groq for low-latency generation.

### Predictive Property Maintenance & CRM AI

#### Integration | Portfolio Project

- Built an end-to-end AI solution using a Random Forest model to predict property infrastructure failures from real-world IoT sensor data.
- Deployed the model via FastAPI and engineered a Python automation script to instantly log urgent maintenance tickets in a SQLite CRM when high risks are detected.