

# AFFAN IMRAN

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## EDUCATION

### The University of Manchester

Manchester, UK

**BSc (Hons) Computer Science** | Predicted: First Class

September 2023 – July 2026

**Modules:** Data Structures and Algorithms, Databases, Distributed Systems, Computer Engineering, Computer Architecture, Operating Systems, Artificial Intelligence, Machine Learning, Natural Language Processing

**Leadership:** Public Relations Lead & Events Officer (UniCS MCR), PASS Leader

## EXPERIENCE

### Teaching Assistant

October 2025 – Present

The University of Manchester

Manchester, UK

- Tutored 40+ first-year students in COMP12111 Fundamentals of Computer Engineering labs, debugging **Verilog** code and guiding the simulation and implementation of **digital circuits**.

### Software Engineer Intern

August 2025 – present

Markaba

Remote

- Integrated external insurance APIs into **Django** backend for digital policy issuance and quote generation.
- Developed a secure down payment gateway using **Stripe** and Django to manage the end-to-end transaction flow.
- Engineered scalable **Python (Scrapy)** and **PostgreSQL** pipelines to **automate data extraction**, and a **React dashboard** to provide data visualization for automotive marketplaces.
- Authored product guides, creating a knowledge base resulting in a **20% reduction in support tickets**.
- Collaborated in an **agile** team, contributing code reviews and daily stand-ups to accelerate delivery.

### Software Engineer Intern

July 2025 – August 2025

Imago Software

Manchester, UK

- Developed features for [IMPRESS2](#), a clinical decision support tool for oncologists treating ovarian cancer.
- Automated testing and deployment with CI/CD pipelines using **GitHub Actions**, **Docker**, and **DigitalOcean**.
- Created a shared REST API interface and testing suite (Jest, Playwright, Lighthouse) to streamline development.

### Software Engineer Intern

June 2024 – October 2024

Itifaq AI

Dubai, UAE

- Built a web scraping pipeline with **Selenium & BeautifulSoup** to process unstructured legal data for AI.
- Developed **REST API** controllers with **TypeScript** and **Express.js** to handle user requests and file uploads.
- Accelerated front-end development velocity by building a library of 15+ reusable **React** components.
- Utilized **React Query** for asynchronous data fetching and state management, optimizing data retrieval speed.

## PROJECTS

### PeerShare | *Java, React, TypeScript*

[GitHub](#)

- Developed a **core Java P2P** file sharing application with temporary invite codes for direct transfers.
- Engineered a **multi-threaded** backend using an **ExecutorService** for **concurrent API requests**.
- Implemented a direct P2P transfer layer using Java's low-level **ServerSocket** and **Socket** APIs.
- Built a custom **multipart parser** from scratch to process **raw HTTP** file uploads.

### Muzer | *TypeScript, Next.js, Socket.IO, Redis, PostgreSQL*

[GitHub](#)

- Built a collaborative music room with real-time queuing, voting, and playback using **Web Sockets**.
- Used **Redis Pub/Sub** to sync WebSocket events across distributed instances, supporting horizontal scalability.
- Cached** queue and track state in **Redis** to reduce PostgreSQL queries and improve performance.

### AskSQL | *Python, Streamlit, LangChain, Gemini API, MySQL*

[GitHub](#)

- Developed a web interface that enables users to interact with MySQL databases using natural language queries.
- Engineered a backend pipeline using **LangChain** to generate SQL queries from user input and the Google Gemini API to convert the results into human-readable responses.

## TECHNICAL SKILLS

**Languages:** JavaScript, TypeScript, Python, Java, C, C++, HTML/CSS

**Frameworks/Libraries:** React.js, Next.js, Node.js, Express.js, Django, Socket.IO, Tailwind, pandas, NumPy

**Databases:** MySQL, PostgreSQL, MongoDB, Redis

**Tools & Platforms:** Docker, DigitalOcean, Firebase, Appwrite, Git, Postman, Jest