

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 & Architecture, Operating Systems, Artificial Intelligence, Machine Learning, Natural Language Processing, Cognitive Robotics	
Leadership: Public Relations Lead & Events Officer (UniCS MCR), Secretary (GDG MCR), PASS Leader	

EXPERIENCE

Volunteer Teaching Assistant	October 2025 – December 2025
The University of Manchester	Manchester, UK
• Guided 30+ first-year students in COMP12111 Fundamentals of Computer Engineering labs, providing personalized support to enhance understanding of course materials and practical assignments.	
Software Engineer Intern	August 2025 – October 2025
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 <i>Java, React, TypeScript</i>	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 <i>TypeScript, Next.js, Socket.IO, Redis, PostgreSQL</i>	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 <i>Python, Streamlit, LangChain, Gemini API, MySQL</i>	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	
Tools & Platforms: DigitalOcean, Firebase, Appwrite, Git, Postman, Jest	