

Moeed Chughtai

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EDUCATION

Bsc Computer Science, *The University of Manchester (UoM)* 2023-2026

Semester 1 Modules: Computer Architecture, Computer Engineering, Programming 1 (Python), Mathematical Techniques

Semester 2 Modules: Fundamentals of Computation, Data Science, Operating Systems, Programming 2 (Java)

A-levels and GCSEs, *Altrincham Grammar School for Boys (AGSB)* 2016-2023

A-levels: Computer Science (A*), Mathematics (A*), Further Mathematics (A*), Physics (A)

WORK EXPERIENCE

Software Engineering, *IBM Manchester* July 2022

- Gained insights by shadowing multiple software engineers, enhancing my understanding of roles within the team structure.
- Acquired knowledge of the Agile Software Development methodology, emphasizing regular progress discussions and fostering a collaborative work environment.
- Demonstrated technical proficiency by developing a program that identified and reported redundant attribute value overrides in a database, resulting in improved storage efficiency and enhanced query performance.

PROJECTS

SpendWise Oct 2023

- Collaborated in the GreatUniHack to develop a web application dedicated to aiding users in financial management.
- Implemented features for visualizing spending trends, such as graphs and maps, and delivering money management advice using the mock user data provided by the Capitol One API.
- Developed adaptability and problem-solving skills through collaborative development and gained experience in data analysis using API integration.

ConvoConnect Nov 2022 - Mar 2023

- Programmed a chat application in Android Studio using Java for functionality and XML for interface design.
- Established a Django web server to facilitate interactions with an SQL database for efficient data storage and retrieval.
- Demonstrated a commitment to data security by acquiring expertise in asymmetric encryption and applying the RSA algorithm to protect user data during transmission.
- Improved software development skills with app development, database management and encryption techniques.

Web Scraper Jan 2023

- Wrote a Python script to parse through thousands of articles using the Wikipedia API and create HTML pages for each.
- Engineered a system to facilitate inter-page linking, incorporated the PageRank algorithm with iterative optimization and introduced an HTML script enabling users to search and display top results from the database.
- Gained web scraping, data processing and information retrieval experience and improved algorithm implementation skills.

GameHive June 2022

- Developed a dynamic website utilizing HTML and CSS, incorporating interactive games, created with JavaScript.
- Implemented a robust user authentication system, enabling user differentiation and secure score storage within a database.
- Strengthened web skills, integrating interactive games, and ensuring secure authentication with database management.

SKILLS AND ACTIVITIES

Certifications and Achievements

- Experience in Python, Java, Kotlin, Android Studio, HTML, CSS, JavaScript, Node.js, SQL, Firebase, Git
- Udacity course on Algorithms and Data Structures, QuTech course on Architecture and Algorithms of Quantum Computer.

Hobbies and Interests

- University societies: **RoboSoc**: building and coding buggies for competitive challenges, **UniCS**: learning game development using Monogame Framework, **Google DSC**: exploring developer technologies such as Typescript and TensorFlow.
- Play both football and cricket at club level for Sale United FC (captain) and Cheadle CC respectively.