BILAL MUSTAFA SHEIKH

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CARDIFF   http://www.bilal-mustafa.co.uk

A second-year Cardiff University Student enrolled in Computer Science (predicted 1st class), looking to secure an Industrial Placement to use and further develop my knowledge of software development in a practical and fast-paced environment. Aiming to be a Software Engineer to develop innovative products that will help people in day-to-day activities.

EDUCATION

BSC Computer Science with Security and Forensics, *Cardiff University*   **Sept 2019 – July 2023**

- *Web Applications,* 87%: Learnt how to code in HTML, CSS, and Flask to make a website. Coursework involved making a shopping website as a group project, which improved web programming skills.
- *Database Systems*, 75%: Learnt how a database is designed using UML diagram and the types of normalisations. Improved SQL in Oracle SQL Plus by learning basic commands and making reports.
- *Problem Solving with Python,* 78%: Improved Python skills by learning new topics and completing coursework, which involved comparing different scoring methods for squash sport by simulation. Also learnt about mathematics topics that included logic and probability.
- *Data Processing and Visualisation,* 83%: Learnt statistical methods to analyse data using Python and analysed data by comparing means between two variables and giving a recommendation established on the results. Also learnt about the correlation between variables.

Manarat Al Riyadh International School   **Sept 2015 – June 2019**
- **A-Levels:** Mathematics, Computer Science, Business Studies
- **SAT:** Evidence-Based Reading and Writing, Maths
- **GCSEs:** 6 x A-C, including Maths, English, and Computer Science

SKILLS

Programming Skills: Experience in Python, Java, Swift, SQL, MATLAB, HTML, CSS. Multiple coursework involved using Python, such as programming an adventure game. Also programmed a Magic Square program in Java as part of a coursework.

Time Management: Organized timetable by using applications like calendar and reminders. Developed an Excel for year 2 modules, which contained the details about each module and the coursework's to be finished. Took an extra module in 1st semester therefore had to manage time efficiently.

Teamwork: The objective of one of the modules (Group Project) in year 2 was to complete the project given by the client. As part of the group project, created the database structure of the website. Played teamwork-based sports like cricket and football.

Communication: Part of doing group projects is to have good communication between team members. Improved communication skills through the delivery of the presentation. Had regular face-to-face meetings before the pandemic, then switched to Microsoft Teams for meetings for group projects.

Problem Solving: In Problem Solving with Python Coursework, the task was to recommend which scoring method in squash is better. Simulated both scoring methods in Python. Analysed and made a report on which method is better.

PERSONAL PROJECTS

Tic-tac-toe Game
- Developed the Tic-tac-toe game, which allows the two users to play with each other. The user also has an option to play with the computer using AI.
- The users have an option to continue playing at the end of each game.
- Improved programming skills by developing a making a Tic-tac-toe game using python.

Word Based Adventure Game
- Developed an Adventure Game using Python.
- Gained knowledge on how to make a word-based game in python. Learned how to use functions from other python files, and how to write code in functions and execute it in the main function which helped improve programming skills in Python.

Portfolio Website
- Developed a portfolio website which included includes my information, CV, and skills.
- Programmed and designed the portfolio website using HTML, CSS, JavaScript, and Bootstrap, which helped me improve my web designing skills.
- Deployed the portfolio website on GitHub and linked GitHub with the domain.

VOLUNTARY EXPERIENCE

Student Mentor   **Sept 2020 – Feb 2021**
- Mentored 9 first-year students from the Computer Science course to provide information about study-related matters and social life in Cardiff.
- Built strong relationships with the mentees by arranging meetings and ensuring that the mentees face no difficulty settling in. Had to plan the meeting when every mentee was available, which required planning and time management.

Clean Up Cardiff   **Feb 2020**
- Volunteered to clean up Bute Park in Cardiff with 9 other volunteers, which built new relationships with the other volunteers.
- Created groups of 2 volunteers and the team leader allocated an area for cleaning, which increased efficiency as the task completed quickly.

INTERESTS

Sports: Part of the Cricket development squad in Cardiff University Team. Participated in Inter-School tournament in Riyadh Cricket League and finished the tournament as the top scorer. Played as a defender with Pakistan Society Football Team in the University league.

Technology: Keep up to date with the latest news and trends in the technology Industry. Interested in companies like Apple, Google, Huawei, and the novel products introduced to the tech industry. Also started to learn new courses on machine learning, e.g., making a chatbot using Python.