

Omar Sanad

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WORK EXPERIENCE

Swansea University

Student Ambassador

Sep 2024 - Present

- Helped organise marketing for university open days, improving visitor experience and boosting engagement.
- Created promotional materials and social media content, developing content creation skills.
- Worked closely with staff from different departments, strengthening teamwork and communication.
- Led campus tours and answered questions, enhancing public speaking and presentation abilities.
- Coordinated with other ambassadors, improving leadership and event management skills.

JP Morgan

Software Engineering Work Experience

Sep 2024 - Sep 2024

- Set up a local development environment, sharpening my problem-solving and troubleshooting abilities.
- Developed a live data visualisation graph using JPMorgan Chase's Perspective library, enhancing my skills in React and Node.js.
- Improved the trading experience by implementing real-time data visualisation.
- Worked with Git and GitHub for version control, strengthening team collaboration and code management.

EDUCATION

Swansea University

First Class

Bachelor of Science in Computer Science and Artificial Intelligence with a Year in Industry *Graduation Date: Jun 2027*

PROJECT EXPERIENCE

Parcel Tracking System

Developer

Jun 2020 - Present

- Developed a parcel tracking system using Java and JavaFX.
- Used a CSV file for parcel data input, reading sender and receiver details.
- Designed a GUI with a grid, using nodes to represent locations on the delivery route.

Boulder Dash Remake

Start Date - Finish Date

- Led coordination between 3 teams while contributing to coding and debugging, ensuring timely project delivery and quality control.
- Designed and implemented algorithms, including Dijkstra's algorithm, and developed game physics for object interactions.
- Documented meeting minutes and reported progress directly to the tutor, maintaining alignment and accountability.

Forest Fire Prediction

Data Analyst

May 2018 - May 2020

- Analysed forest fire data from two regions in Algeria using a CSV dataset.
- Applied data cleaning, preprocessing, and exploratory analysis to identify trends.
- Used machine learning techniques, including linear regression, to predict fire occurrences.
- Used Python libraries such as Pandas, Matplotlib, and Scikit-learn for data handling and visualisation.

LEADERSHIP EXPERIENCE

ACUD

Volunteer

Mar 2023 - Mar 2023

- Volunteered 40 hours in a civil engineering office, supporting data cleaning and formatting tasks that improved project accuracy by 15%.

- Gained exposure to management, finance, and engineering, deepening my understanding of the business-technology interface.
- Collaborated with various departments, enhancing my communication and cross-disciplinary teamwork skills.

SKILLS & INTERESTS

Skills: Languages: Java, JavaFx, Python, JavaScript, HTML, CSS, MySQL; Frameworks: React, Node.js, JUnit;
Developer Tools: Git, Github, VS Code; Libraries: Pandas, numpy, Matplotlib, SkitLearn, JavaFX.