

Rayan Sheikh

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EDUCATION

University of Westminster

BSc Computer Science

Sept. 2024 – June. 2026

University of Aberdeen

BSc Computing Science - Achieved 1st

Sept. 2021 – June. 2022

Watford Grammar School for Boys

BBC - Maths, Computer Science, Physics

Sept. 2019 – June. 2021

EXPERIENCE

Budget Plus Services LTD

Software Engineer Intern

London, UK

Sept. 2023 – Aug. 2024

- Developed an internal web application using HTML, CSS and JavaScript by collaborating with cross-functional teams, reducing data entry errors by 15% and improving maintenance tracking.
- Led the migration of a legacy customer database from an on-premises server to the cloud, gaining hands-on experience across the product lifecycle, resulting in a 40% reduction in system downtime.
- Collaborated with engineers to meet business requirements, gaining insights into software development processes, which led to a 30% improvement in project delivery timelines.

Bright Network

Technology Experience Participant

Remote, UK

June. 2023 – June. 2023

- Worked in a multidisciplinary team to design innovative solutions for SMEs, creating 3 tailored strategies that addressed key technical challenges.
- Evaluated the feasibility and scalability of the solutions based on 5 categories: Technical Innovation, Creativity, Execution, Design and Business Model.
- Participated in professional development sessions, gaining insights into the latest technologies and software engineering trends.

PC & Mobile Solutions LTD

Technical Support Specialist

Watford, UK

Oct. 2019 – Oct. 2019

- Resolved device hardware issues and upgraded components to improve performance.
- Upgraded devices' secondary storage from HDD to SSD and increased RAM to 16GB, reducing boot times.
- Tested and maintained the quality of all device stock, including phones, laptops and tablets.

PROJECTS

Global Security Monitor

- Developed a Python-based interactive dashboard, incorporating Dash and Plotly to visualise and analyse real-time global cyber threat data from IB abuse reports.
- Designed and implemented a user-friendly, responsive interface with features for live data integration.

Weighted Blackjack Simulator

- Developed a Python-based simulation and reinforcement learning (Q-learning) agent to analyse and improve player win rates in Blackjack against a "cheating" dealer with a weighted deck.
- Demonstrated a significant increase in player performance through AI-driven strategy optimisation, utilising data visualisation and statistical comparison techniques.

Interactive Phishing Awareness and Training Quiz

- Developed an interactive React + TypeScript quiz app to help users identify phishing emails, featuring immediate feedback and score tracking.
- Designed and implemented a gamified user experience with TailwindCSS, focusing on phishing awareness and education through hands-on, scenario-based learning.

COURSES

Data Science Professional Certificate by IBM on Coursera

- Developed expertise in machine learning techniques, including regression models, classification techniques and tree ensembles, leading to a 15% improvement in model accuracy for predictive tasks.
- Built an interactive Plotly Dash dashboard and trained a model to predict aircraft landing success, achieving 98% accuracy for real-time decision-making.

SKILLS

Programming Languages: Python, JavaScript, C++, Java, SQL, LaTeX

Extra Curricular: Tennis, Table Tennis, Basketball, Badminton