Rowan Bithal

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EDUCATION

University of Birmingham — Sep 2023 – Jun 2026
Bachelor of Science in Computer Science with First-Class Honours (Years 1 & 2)
- Achieved 90% in AI 2, and 87% in AI and Team Project modules

Radnor House Twickenham — Sep 2021 – Jun 2023
A level Computer Science (A), Maths (A), and Physics (A)*

EXPERIENCE

DXC Technology — Jul 2023
Work Experience
- Mentored by a Cloud Architect and introduced to key components of public and private cloud infrastructure.

Bupa — Aug 2022
Work Experience
- Gained exposure to actuarial modelling techniques and risk analysis processes within the healthcare insurance sector.
- Conducted data analytics tasks including data extraction, manipulation, and analysis.
- Enhanced team communications and drafted project documentation and presentations.

Agilisys — Jul 2021
Internship
- Gained insights into business operations across HR, Finance, Payables, FP&A, and Cloud IT departments.
- Developed key professional skills, including effective communication and attention to quality.
- Demonstrated project management skills by participating in team tasks in a high-pressure environment.

ServiceNow — Oct 2022
Insight Day
- Collaborated on a sustainability project, strengthening teamwork and collaboration skills.
- Exposed to client engagement practices and software service delivery at the company.

Compass Group at Twickenham Stadium — Nov 2021
Waiter
- Delivered exceptional customer service in a high-paced environment in the executive lounges.
- Adapted between team roles and leadership, building strong communication and coordination skills.

PROJECTS

Music Room Booking System | *Java, Spring Boot, React, PostgreSQL, Docker, Github Actions, Ubuntu VM*
- Developed and deployed a full-stack room booking system for the university music department, scoring 87% in the Team Project module.
- Built a responsive web app with features including room booking and user statistics, and set up a CI/CD pipeline with GitHub Actions deploying to a self-hosted Ubuntu VM.
- Collaborated in an agile team using vertical slicing, GitHub Projects, and protected branching workflows, contributing to over 30+ meetings and peer-reviewed codebase.

Firewall Configuration Manager | *C, Networking*
- Designed and implemented a server program to manage firewall rules and handle client requests, ensuring robust and concurrent operations.
- Implemented concurrency mechanisms to handle multiple socket-based client connections, ensuring responsive and robust server communication.
- Prevented memory leaks using Valgrind and validated functionality through automated test scripts.

House Price Prediction Model | *Python, Machine Learning, Pandas*
- Trained a Random Forest Regression Model on 3,500+ records to predict London house prices, optimising model performance through cross-validation.
- Conducted data preprocessing, including handling missing values, scaling features, and one-hot encoding categorical variables.

Volunteering

Integrated Neurological Services Feb 2020 – Jun 2021
- Improved social media engagement and supported fundraising efforts, helping raise £3,500.

OXFAM Dec 2018 – Jun 2019
- Managed inventory and assisted 30+ customers daily, gaining valuable retail experience.

AgeUK Jun – Sep 2016
- Taught digital skills to elderly individuals, improving confidence and access to online services.

Skills & Interests

Languages: Java, Python, SQL, JavaScript, C
Frameworks/Tools: Spring Boot, React, Flask, Docker, Git
Concepts: Machine Learning, Networking, REST APIs, CI/CD, Agile, Data Visualisation, Web Development

Interests: Machine Learning, Web Development, F1, Muay Thai, Chess, Football