

## Jawad Alamri

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### PROFILE

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Software Engineering & Computer Science student (GPA 4.0/4.0). Recipient of the SABIC Scholarship and awarded the Best Overall Performance Prize by the School of Computing. Developing experience in building intelligent systems, working with data-driven methods, and applying machine learning concepts to real-world challenges. Strong analytical thinking, clear communication, and a collaborative mindset, with a motivation to create meaningful impact through AI technologies.

### EDUCATION

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**University of Newcastle (GPA 4.0/4.0)**, BSc Computer Science & Software Engineering (2024–2027)

- Fairstone Prize for Best Overall Performance, awarded by the School of Computing

**INTO Newcastle University (GPA 4.0/4.0)**, International Foundation (2023–2024)

**University of Birmingham**, English for Academic Purposes (2022–2023)

### TECHNICAL PROJECTS

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#### Systems & Security Engineering

- Secured a Flask application against OWASP Top 10 vulnerabilities (SQL Injection, XSS/CSRF, session fixation) with hardened HTTP headers (CSP, HSTS).
- Built a Reliable Sensor Transmission Protocol over UDP with sequencing, checksums, and fault-tolerance testing.
- Implemented a synchronized IPC system in C using POSIX shared memory and semaphores.

#### Algorithms, Data & Full-Stack Development

- Developed a scalable PageRank algorithm in Python with 70% performance improvement on 10k+ node graphs.
- Designed normalized MySQL databases with optimised queries and ER diagrams for route/scheduling systems.
- Built full-stack systems including a Python/SQL booking platform and a Java analytics application using OOP design.

### CERTIFICATIONS

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Google Data Analytics, Java Masterclass, Python Pro Bootcamp, ZTM Complete AI & ML

### SKILLS

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**Tech Stack:** Python • Java • C • SQL • Flask • Django • Git • Jupyter • NumPy • Pandas • Matplotlib • ML

**Core Skills:** Data Analysis • Secure coding • Debugging • Performance optimization • Problem Solving

### EXTRACURRICULAR

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Student Representative, INTO Newcastle (2023-2024)

Student Representative, University of Birmingham (2022-2023)

### LANGUAGES

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English (Fluent), Arabic (Native)