

JOSHUA PAUL BIRD
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Recent Computer Science graduate from Cardiff University (2:1 Honours) with a strong foundation in IT systems, network management, and technical problem-solving. Experience in software development, database management, and virtualisation technologies, with hands-on experience in setting up and managing servers, configuring network access, and troubleshooting technical issues. Highly adaptable and eager to apply analytical skills and technical knowledge to support and maintain IT infrastructure. A proactive team player with excellent communication skills, capable of assisting end-users, resolving technical problems efficiently, and contributing to smooth IT operations in fast-paced environments.

Key Skills

- Programming & scripting: Python (Flask, scikit-learn), Java (Android, general OOP), SQL, HTML/CSS/JS.
 - Database management: MariaDB (normalisation, queries), MongoDB (NoSQL), Neo4j (graph), spatial SQL.
 - Networking and virtualisation: knowledge of network configuration, KVM, Wireshark, OpenShift, KVM, Docker for server management, virtualisation, and cloud-based solutions.
 - Security & Forensics: AES/RSA, SSL/TLS, intrusion detection, evidence acquisition
 - System administration: Setting up and managing a home server, remote access and various levels of file based and GUI based configuration.
 - Analytical thinking and problem-solving: ability to diagnose issues, research solutions, and implement fixes effectively.
 - Communication and collaboration: Knowledge of key project management frameworks such as agile, collaboration tools such as git and able to explain technical concepts clearly to non-technical users and work in teams.
 - Adaptability and quick learning: fast learner of new software, hardware, and IT processes.
 - Organisation and project management: managed projects like mobile application development and server setup, showing planning and coordination skills.
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Technical Project Experience

Final-Year Individual Project – Network Intrusion Detection on Android

(40 credits, 2025)

- Built an ML-based intrusion detection system; trained on relevant network traffic data ([CIC-IDS2017](#))
- Developed a prototype android app using Java for real-time alerts on detection of malicious traffic; evaluated device overhead while running the application and the accuracy.
- Authored a 10k-word technical report with performance metrics, details of the process and data sources used as well as literary sources used.

Group Project – Night Time Safety App To Help Users Get Home Safely.

(2024)

- 6-person team: Android app (Java) with sensor integration, Flask REST API, MariaDB back-end.

- Deployed on OpenShift; implemented user authentication, mapping and fall detection.
 - Ran Agile sprints, gathered client requirements, demoed to supervisors weekly and produced an extensive group document for the project including testing, reasons for particular choices and the process. Presented a presentation to the mock client detailing the prototype application.
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Work Experience

Work Experience Placement – E-Services, City of Wolverhampton Council

May 2019

- Supported improvements to website design and functionality to enhance user experience.
- Assisted with community engagement through social media activities.
- Collaborated with team members, developing strong communication and teamwork skills.

Volunteer & Team Activities

- Participated in the Silver Duke of Edinburgh's Award, developing leadership, teamwork, and resilience.
 - Previous involvement in the Scouts organisation as a volunteer and member, fostering teamwork and responsibility.
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Additional Experience

- Set up and managed a home server system to provide backup and remote access for multiple users — showing initiative, self-learning, and problem-solving.
 - Experienced in helping others with basic tech issues, demonstrating patience and clear communication — key strengths in customer-facing roles.
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Education

BSc (Hons) Computer Science with Security and Forensics – Cardiff University

Graduated June 2025 – Second Class Honours, Division One (2:1)

- Developed strong analytical, communication, and project management skills.
- Worked on team-based projects involving client communication and user testing.
- Enhanced organisational skills through meeting deadlines and managing multiple priorities.

OCR Level 3 Cambridge Technical Diploma in IT – Aldersley High School

Grade: Distinction – August 2022**

- Focused on information systems, product design, and communication strategies.
- Built transferable skills in teamwork, digital communication, and stakeholder engagement.

A-Levels – Aldersley High School

- History (B), Physics (C) – August 2022
 - Strengthened research, critical thinking, and attention to detail.
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