Owen Rice

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Professional Summary

Computer Science graduate with hands-on experience in cloud systems, network security and engineering, and full-stack development.

Technical Skills

- **Programming:** Go, Python, Java, JavaScript, CSS/HTML5
- **DevOps, CI/CD & Version Control:** Git, GitHub, Branch management, CI/CD pipelines, Docker
- **Cloud & IT Infrastructure:** Azure, AWS, DNS/DHCP services, TCP/IP stack, Wireshark, NAS deployment
- **Systems Administration:** Linux (Debian, Ubuntu, Arch), Windows, Shell scripting (Bash, PowerShell)
- **Testing & Quality:** JUnit, Automated testing, CI/CD-based validation
- **Networking:** LAN/WLAN deployment, Network security practices

Education

Bachelor of Computer Science (2021-2025)

Kingston University

- Upper Second-Class Honours
- Modules: Programming, Networking, Internet Services and Protocols, Software Development Practices

BTEC Extended National Diploma in Computer Science (2021)

Ada, National College for Digital Skills

- Grade: DDM
- Modules: Programming, Cybersecurity, Networking, Databases, Software Development, and Project Management

AQA Level 3 Certificate in Mathematical Studies (2021)

Ada, National College for Digital Skills

- Grade: A*

Projects

Cloud Data Management System for Diabetics (2024–Present)

- Developed a web-based dashboard for real-time management and visualisation of healthcare data
- Integrated with a NoSQL MongoDB database and deployed via Microsoft Azure.
- Technologies: JavaScript, CSS, Azure, MongoDB, Docker

Home server system (2024-Present)

- Built and deployed a UNIX-based server, managing home automation, media streaming, and remote access file storage
- Implemented NAS solution with automated backup systems & RAID 2 storage
- Technologies: Linux, Shell scripting, IoT protocols, TrueNAS, RAID

Network Security Enhancement Platform (2024)

- Deployed DNS sinkhole system blocking 100,000+ tracking and advertising domains
- Reduced network security incidents by implementing real-time threat detection
- Technologies: UNIX, DNS protocols, network security tools, Git

Custom PC Building & Hardware Integration (2020-Present)

- Designed and assembled 10+ custom desktop systems, selecting components for optimal performance and compatibility
- Diagnosed and resolved hardware issues including thermal management, power delivery, and component failures
- Technologies: PC hardware architecture, BIOS/UEFI configuration

Languages

English (Native)