

OWEN RICE

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PROFESSIONAL SUMMARY

Recent Computer Science graduate (2:1 Honours, June 2025) with practical experience in Linux systems administration, cloud infrastructure, and software development. Hands-on expertise deploying high-availability storage systems (RAIDZ2/ZFS), containerised applications (Docker), and full-stack web applications (Nginx, JavaScript, Node.js, MongoDB). Proficient in Go, Python, and Java with strong foundations in networking, DevOps practices, and problem-solving. Seeking Systems Engineer, DevOps Engineer, or IT Infrastructure role to apply technical skills in production environments.

PROFESSIONAL DEVELOPMENT

Independent Technical Consultant | Self-Directed (Sept 2025 – Present)

- Maintaining and expanding technical skillset through hands-on infrastructure projects and programming practice
 - Deployed enterprise-grade RAIDZ2 storage system managing 30TB+ across multiple services, achieving 99% uptime over 4 months
 - Architected and maintained home lab environment including containerised services, automated backups, network monitoring, and self-hosted applications
 - Developed troubleshooting and system administration skills through hands-on Linux infrastructure management
 - Developed algorithmic problem-solving skills through 150+ coding challenges in Go and Python, focusing on data structures, algorithms, and system design patterns
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TECHNICAL SKILLS

- **Programming & Scripting:** Go (6+ months self-study, algorithmic problem-solving), Python (6+ years academic, automation & scripting), Java (2+ years academic, object-oriented development), JavaScript/Node.js (1+ year academic, full-stack web development), Bash, PowerShell, HTML5/CSS
 - **Systems & Infrastructure:** Linux Administration (Debian, Ubuntu, Arch), Windows, TrueNAS/ZFS, RAID configuration, virtualisation (KVM, VirtualBox), high-availability systems design, system monitoring
 - **Cloud & DevOps:** Microsoft Azure (App Services, VM deployment), AWS (foundational), Docker (containerisation), CI/CD pipelines (GitHub Actions), Git version control, infrastructure automation, configuration management
 - **Networking & Security:** TCP/IP, DNS/DHCP services, LAN/WLAN deployment, firewall configuration, network monitoring (Wireshark), VPN setup, SSH hardening, Nginx reverse proxy, REST API development
 - **Databases:** MongoDB (NoSQL), SQL fundamentals, schema design, query optimisation
 - **Testing & Quality:** Unit testing, integration testing, debugging, code review practices
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PROJECTS

Healthcare Data Dashboard | Final Year Dissertation Project (Sept 2024 – June 2025)

- Designed and deployed web-based analytics platform for diabetes management, processing 2+ years of personal health data (10,000+ blood glucose readings, insulin dosage records, nutritional logs)
- Engineered microservices architecture to interface with legacy NoSQL database, enabling real-time data visualisation without disrupting existing client-server dependencies
- Refactored disorganised MongoDB schemas, implementing data validation and indexing that substantially improved query response times
- Deployed on Azure using Docker containers with automated CI/CD pipeline via GitHub Actions

- Technologies: JavaScript, Node.js, Express.js, Azure Cloud Services, MongoDB, Docker, Git
- Outcome: Achieved a 2:1 classification, successfully defended technical architecture and implementation decisions

High-Availability Home Infrastructure | Personal Project (Sept 2025 - Present)

- Architected and deployed enterprise-grade RAIDZ2 storage array on TrueNAS, providing 30TB+ of fault-tolerant storage with 2-drive redundancy
 - Configured automated backup systems, network monitoring, virtual machines, and containerised services (Plex, Pi-hole, reverse proxy) serving 5+ simultaneous users
 - Implemented security hardening including firewall rules, SSH key authentication, fail2ban intrusion prevention, and regular security patching schedules
 - Maintained 99% uptime over 4+ months with zero data loss incidents
 - Technologies: TrueNAS SCALE, ZFS, Linux (Debian), Docker, Bash scripting, Nginx
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EDUCATION

Bachelor of Science in Computer Science | Kingston University (2021 – June 2025)

- Classification: 2:1 (Upper Second Class Honours)
- Relevant modules: Programming, Networking, Internet Services and Protocols, Software Development Practices

BTEC Extended National Diploma in Computer Science | Ada, National College for Digital Skills (2018-2021)

- Grade: DDM (Distinction, Distinction, Merit)
- Relevant modules: Programming, Cybersecurity, Networking, Databases, Software Development and Project Management

AQA Level 3 Certificate in Mathematical Studies | Ada, National College for Digital Skills (2018-2021)

- Grade: A*
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