

John Wood

Software Engineer, Kubernetes Engineer & Systems Engineer

john@kolon.co.uk · Wiltshire, United Kingdom

Summary

I maintain my own server rack at home, providing free website and fileserver hosting for several community groups, including 1244 (Swindon) Squadron Air Training Corps, Wiltshire County Pool and Mazz's Disco. The rack also runs my personal media server and storage, test & development VMs/containers, and a duplicate backup stack. Outside of work I enjoy music (piano and ukulele), taking apart electronics, tinkering with opensource projects, walking, running, cycling, SUP and general outdoor adventures. I also volunteer with two local Air Cadet squadrons, training young people aged 12-20. I actively maintain a Docker image with over 500k pulls on DockerHub.

Experience

Nationwide Building Society — CI/CD Engineer

Apr 2024 – Present

Nationwide is the largest building society in the UK, requiring stable and usable facilities to help maintain members' financial security.

- Maintain CI/CD pipelines and applications that let developers focus on development and security researchers focus on security
- Work with AWS, Azure, GitHub, Harness, Jenkins, Artifactory, Snyk, Dynatrace, Ansible, Terraform, Python, Go, bash and PowerShell

RED Technology Ltd — Internet Systems Engineer

Oct 2022 – Apr 2024

Microsoft Gold partner providing e-commerce solution websites with customisation, PCI security, multiple payment gateways and DDoS protection for a number of big brands.

- Maintained hosting, certificates, domains, DNS, routing & failover, monitoring and internal services for customers
- Led the move of internal services (DNS, portals, proxies, relays, monitoring) from a monolithic Windows environment to Linux-based Docker images, paving the way to

Kubernetes

- Introduced GitLab source control and CI/CD pipelines for in-house projects
- Implemented NetBox for hardware and networking diagnosis
- Built scripts to automate certificate and domain renewal

D2IQ — Senior Customer Support Engineer

Feb 2022 – Oct 2022

D2IQ provides an independent Kubernetes platform service across AWS, GCP, Azure, EKS, AKS and on-prem.

- Kept customer HA deployments running smoothly, solving OOM crashes, cluster certificate issues, DNS problems and deployment/pod breakdowns
- Researched KB articles and assisted internal verification of issues and enhancements
- Contributed to user-facing documentation and internal technical processes
- Obtained CKA qualification

Openda Ltd — Senior Developer and Technical Support Specialist

Jan 2005 – Feb 2022

Openda develops and supports an in-house CRM/ERP business software solution, QX, written entirely in Progress OpenEdge, marketed to SMEs with the slogan "Simplicity, Clarity, Speed".

- Worked on API integration, end-customer documentation, bug-fixing and testing, database optimisation and virtualisation
- Handled server and server-room setup and customer site-wide backup strategies
- Provided IT support for networking, servers, desktops, Office 365, phone systems and backups
- Contributed to mobile app development

Plymouth Mobile Software Solutions — Lead Developer / Technical Manager

Jul 2001 – Jun 2004

Specialised in barcode and handheld solutions for ferry services and water taxis.

- Developed inventory solutions for lot-traceable companies with low-volume products
- Supported existing mobile units, including liaising with repair centres and flashing custom firmware

Education

Plymouth College of Further Education — HND (partial), Computing

Jun 2001 – Sept 2001

University of Plymouth — BSc (partial), Computing

Sept 1999 – Jun 2001

New College, Swindon — A-Level, Computing, Maths, Physics

Sept 1997 – Jun 1999

Highworth Warneford School — GCSE, Computing, English, Maths, Science, Geography, Electronics, Design & Communication, French

Sept 1993 – Jun 1997

Certifications

- Certified Kubernetes Administrator (CKA) — The Linux Foundation / CNCF (2022)

Skills

Containers & Orchestration: Kubernetes, Docker, podman, OpenVZ, Rook Ceph, velero, CIFS/NFS, HAProxy/keepalived

Cloud Platforms: AWS, GCP, Azure

Operating Systems & Virtualization: Linux, FreeBSD, FreeNAS, Windows, MSDos, VMware ESX/VSAN, Proxmox, Xen, KVM

Networking & Infrastructure: AD/GPO, VoIP/PBX, Netgear & Cisco networking, DNS, BIND, PowerDNS, Certificates/SSL, SPF, DKIM, DMARC, I2C, SPI, OBD2, 1-Wire

Monitoring & Automation: Prometheus, Loki, Grafana, Zabbix/Nagios, Ansible, Packer, preseed, Git/GitLab

Programming & Scripting: Progress OpenEdge (v9-12), Python, Go, HTML/CSS/PHP, JavaScript/TypeScript, Dart/Flutter, bash, PowerShell/VBScript, Visual Basic 2-6, Delphi 4-7

Data & Hardware: SQLite, MariaDB, MSSQL, Elasticsearch, BMC (OpenManage, IPMI, iDRAC, iLO), ESP32, Raspberry Pi, Postscript/PCL, ZPL/EPL