Mike Robinson

DevOps & AI Infrastructure Engineer

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MIS-educated IT professional with 20+ years of experience across systems administration, cloud infrastructure, automation, and AI/agent development. Currently building AI-powered infrastructure and training teams on agentic workflows at MHK (Hearst Health). Track record of deploying cost-saving solutions and driving technology adoption across enterprise environments. Runs a hands-on home lab (Docker, OPNSense, Ollama, ZFS-backed storage, Omada networking, Home Assistant) to keep skills production-ready.

WORK EXPERIENCE

Senior Infrastructure Automation Engineer

Jan 2019 – Present

MHK (Hearst Health) — Tampa, FL

- Deployed AWS Bedrock models and GitHub Copilot for enterprise automation and error detection; trained IT Ops teams on AI-assisted coding, prompt engineering, and agentic workflows
- Automated Windows patching process using AWS EventBridge + Step Functions + SSM; added hybrid Oracle Cloud instances to SSM for unified fleet management
- Building new event-driven scheduler using AWS EventBridge, Step Functions, DynamoDB, Lambda, and SSM to replace legacy scheduling tools

DevOps Engineer / Senior Linux Admin

May 2018 – Dec 2018

Analog Devices (Carlton National) — Tampa, FL

- Rewrote a broken Ubuntu OpenStack deployment to CentOS using Ansible + Puppet auto-deploy
- Migrated to SSD-backed LVM volumes, reducing VM provisioning from minutes to **under 10 seconds** for 20–30 VMs
- Negotiated an extra month to properly package the project for sale, ensuring clean infrastructure handoff

IT Contractor

Feb 2018

Comco, Inc. — Pinellas Park, FL

- Led week-long infrastructure modernization: deployed PFSense + OpenVPN firewall and EdgeRouter managed switches
- Virtualized file/mail (MDaemon) servers from 3 physical servers to Proxmox VE nodes with replication
- Secured MDaemon with Let's Encrypt SSL; upgraded Windows 7 to 10 + Office 2016 and deployed QuickBooks Enterprise

Systems Architect

Jul 2003 – Oct 2017

Marietta College — Marietta, OH

- Architected campus IT transformation over **15 years**, from a DEC Alpha running **everything** (email, web, FTP, student logins) and a Sun V880 with no AV or anti-spam to an enterprise-adjacent Linux + VMware environment, positioning the college for cloud migration
- Spearheaded VMware virtualization, consolidating **~50 physical servers** to **10 blades** + JBOD, eventually eliminating all physical servers except network routing; reduced average server cost by ~**$1,400** and made virtualization the default within a year
- Installed ClamAV and SpamAssassin on the Sun V880 within **3 months** of hire (migrated over Thanksgiving break), later replacing commercial anti-spam/AV with custom SpamAssassin + ClamAV (~**$16K/year** saved); deployed Zabbix monitoring (**$20K/year** saved) and Real Networks Helix streaming (**$8K/year** saved)

- Migrated email to Zimbra as part of the VMware pilot, splitting the monolithic DEC Alpha services into dedicated infrastructure — email, student logins, and web each on their own servers; later recommended and assisted migration of the college website to hosted Drupal
- Deployed NexSAN hybrid storage (OpenIndiana/ZFS) for ~3,000 accounts, funding the purchase via a published vendor case study; ran SAN/NAS (NexSAN, NetApp — Fiber Channel, iSCSI, NFS) with replication & backup, and built identity management (OpenLDAP/FreeRadius), Asterisk VoIP, digital signage, and DNS/DHCP infrastructure
- Replaced vendor bandwidth-management with an in-house **PFSense router** (repurposed 2U server) running packet shaping; migrated campus wireless to **Ubiquiti UniFi**, and hardened the edge with PFSense firewalls
- Freed up **2 racks** through blade consolidation; installed an APC UPS system and natural gas standby generator, replacing scattered bottom-of-rack UPS units with a single UPS sized to bridge the ~1-minute gap to generator startup

Hardware Test Technician (Linux)

Mar 2003 – Jul 2003

IBM (CTG) — Research Triangle Park, NC

- Tested integrated hardware components on IBM servers using Linux and Windows diagnostic tools
- Validated server configurations for enterprise deployments at IBM Research Triangle Park

E-Commerce Analyst

Oct 1999 – Apr 2002

IBM (DynPro) — Research Triangle Park, NC

- Created data feeds for IBM Global ShopIBM (ISO 9735 / EDIFACT standards) using complex SQL/DB2 and Shell Scripting
- Migrated corporate site from Windows NT/2000 to Linux (Apache + PHP); started as assistant to VP, fast-tracked to supervising staff
- Developed automated data processing pipelines using Java, Perl, and DB2 for enterprise e-commerce operations

COBOL Tutor

Fall 1998 – Spring 1999

WVU Institute of Technology — Montgomery, WV

- Tutored MIS students in COBOL I, II, and Mainframe (JCL) coursework

SKILLS

AI & AGENT DEVELOPMENT

Claude Code, AI Coding Agents, Hermes Agent, vLLM, llama.cpp, Ollama, Model Quantization (GGUF, GPTQ, AWQ), Prompt Engineering

INFRASTRUCTURE & DEVOPS

Docker / ECS, Ansible / AWX, Python, AWS (S3, EC2, ECS, SSM, EventBridge, Step Functions, Lambda, DynamoDB, Route 53), CI/CD (Jenkins, GitHub Actions), VMware ESX/ESXi, Proxmox VE, Terraform

OPERATING SYSTEMS

Linux (RHEL, CentOS, Debian, Arch, Ubuntu), BSD (FreeBSD, NetBSD, macOS), Windows Server

PROGRAMMING

Python, PHP, Perl, Bash/Zsh, JavaScript, Java, HTML/CSS, COBOL, SQL/DB2

NETWORKING & SECURITY

VLAN/Trunking/NIC Teaming, Ubiquiti UniFi, PFSense/OPNSense, Cisco/ Enterasys/Extreme, FortiGate, IDS/IPS, DNS (bind), OpenVPN, IPTables

STORAGE & BACKUP

NAS/SAN (NexSAN, NetApp), ZFS, Fiber Channel, iSCSI/NFS, Snapshots & Replication, vSAN, Veeam Backup, IBM Spectrum Protect

SYSTEMS & APPLICATIONS

Apache HTTPD, Sendmail/Postfix, SpamAssassin/ClamAV, OpenLDAP/ FreeRadius, Zimbra Collaboration, Zabbix Monitoring, Asterisk/FreePBX, Puppet, OpenStack

SOFT SKILLS

Team Leadership, Technical Training & Mentoring, Vendor Management, Project Management, Cross-functional Collaboration, Cost Optimization

EDUCATION & AWARDS

B.S. Management Information Systems

WVU Institute of Technology (1996–1999) — Dean's List

Additional courses: Speech, Journalism, Technical English. Internet Help Desk Attendant.

Awards & Certifications

- 2016 — Marietta College inSPIRE Award
- 2014 — Extreme Networks Certified Specialist (Wireless)
- 2011 — Marietta College Quality Service Award
- 1999 — ICCP Associate Computing Professional (COBOL)

Publications & Case Studies

- 2016 — CirrusWorks — "Marietta College Solves Student WiFi Problems Caused by Insatiable Demand for Bandwidth" (quoted as network lead)
- 2014 — Imation/Nexsan — "Selected for Virtualization Overhaul of IT Infrastructure" (quoted; won funding via case study)