

# MIHALIS MOUNOUCHOS

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## PROFESSIONAL SUMMARY

Software developer with two years of experience building and delivering production software, moving into cloud computing and DevOps. Strong grounding in AWS, Linux, automation, and network design, with an emphasis on infrastructure reliability and scalable system design. Focused on furthering knowledge and skills in infrastructure management, cloud platforms, and CI/CD.

## WORK EXPERIENCE

### Software Developer | National Monitoring, AVR Group | 2024 - Present

- Lead full-stack development, from front and backend development, to database management and application deployment, of a business-to-government web application as a solo developer.
- Translate requirements from management into system architecture and production code, collaborating with a UX designer for interface and system design while independently delivering all application functionality.
- Maintain and optimise services such as FEPs, reducing system outages and out of hours service calls by 40%.
- Create and maintain various internal tools and services, as well as GUIs used for company displays at national exhibitions with WinForms.

### Freelance Web Developer | Self-Employed | 2023-2024

- Developed responsive websites with HTML5, CSS3, and JavaScript, working with clients during development.
- Maintained website content and implement SEO and web accessibility techniques.
- Stayed abreast of industry trends and standards in both development practices and UX/UI design.

## KEY PROJECTS

### Home Lab

Ubuntu Server (Dell Optiplex) | Proxmox VE (Intel NUC) | Bash | OpenVPN | UFW | iptables | ClamAV

- Built a multi-host home lab for storage, media streaming & microservices.
- Implemented network segmentation with Proxmox bridges, DHCP reservations, and strict routing boundaries to separate hosts and their internal services from the main LAN.
- Configured OpenVPN (ProtonVPN) tunnels for specific VMs, enforcing internet-only access through encrypted VPN paths with no LAN visibility.
- Automated scanning, file transfers, and maintenance tasks between hosts using Bash scripts, ensuring safe interaction between isolated and trusted environments.
- Implemented strict firewall policies using UFW and iptables to enforce subnet isolation, control routing between VMs, and maintain a zero-trust internal security model.

### Cloud Resume Challenge

AWS (S3, CloudFront, API Gateway, Lambda, DynamoDB, Route 53, SAM) | JavaScript | Python | GitHub Actions

- Designed and deployed a personal portfolio website using AWS S3 for static web hosting, CloudFront for HTTPS delivery, and Route 53 for DNS and subdomain management.
- Built a visitor counter system using DynamoDB, Lambda (Python), and API Gateway to display on the frontend.
- Defined and deployed infrastructure using AWS SAM templates to automatically provision cloud resources.
- Implemented CI/CD pipelines with GitHub Actions to automate testing, builds, and deployments across both front and backend.

## EDUCATION / CERTIFICATIONS

### AWS Cloud Practitioner (CLF-C02), 2025

### Manchester Metropolitan University - Master of Science, Computer Science, **Distinction**, 2022 - 2023

- **Modules:** Cloud and Enterprise Development, Advanced Object-Oriented Programming, Algorithms and Data Structures, Information Systems and Databases

### Manchester Metropolitan University - Bachelor of Art, Philosophy, **2:1**, 2019 – 2022

## TECHNICAL SKILLS

AWS, Ubuntu Server, Python, C#, JavaScript, Bash, IIS, SQL Server, DynamoDB, Docker, GitHub Actions