

# MIHALIS MOUNOUCHOS

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## PROFESSIONAL SUMMARY

Software engineer with hands-on experience delivering and operating production systems end-to-end. Proven ability to take ownership of full-stack applications, from system design and implementation through deployment, monitoring, and ongoing maintenance. Strong background in backend and frontend development, Linux environments, automation, AWS, and CI/CD pipelines. Experienced in building reliable, scalable systems, and maintaining production services with direct responsibility for delivery, reliability, and continuous improvement across the full application lifecycle.

## PROFESSIONAL EXPERIENCE

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

- Lead the end-to-end delivery of multiple production web applications, acting as the sole engineer across design, implementation, deployment, and operation.
- Translate management requirements into system architecture and production code, collaborating with a UX designer on interface and UX design while retaining technical management.
- Maintain and optimise services including FEPs, reducing system outages and out-of-hours service calls by 40%.
- Develop and maintain tools and desktop applications, used both internally and for company displays at national exhibitions with WinForms.

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

- Delivered client websites end-to-end, from requirements gathering to implementation, deployment, and post-launch support.
- Built responsive sites using HTML, CSS, and JavaScript, and developed WordPress-based solutions including theme customisation and plugin integration.
- Applied on-page SEO fundamentals and web accessibility standards to improve search visibility and usability.
- Managed multiple concurrent projects, balancing client communication, technical delivery, and maintenance.

## KEY PROJECTS

### Mandarin Learning MCP Server

Python | Pytest | SQLite | MCP SDK

- Developed a Model Context Protocol (MCP) server enabling AI agents to support structured Mandarin Chinese vocabulary learning for HSK levels 1-6, featuring a spaced repetition algorithm, quizzes and progress tracking.
- Implemented an adaptive testing system with translation and multiple-choice quizzes, flexible answer validation and progress updates based on a custom mastery system integrated with an SQLite database.
- Followed test-driven development practices with 50+ automated tests using pytest.

### 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 S3 for static hosting, CloudFront for HTTPS distribution, and Route 53 for DNS management.
- Implemented a serverless visitor counter system using DynamoDB, Lambda (Python), and API Gateway, integrated with the frontend.
- Defined infrastructure as code using SAM templates to automatically provision and manage cloud resources.
- Built CI/CD pipelines with GitHub Actions to automate testing, builds, and deployments for both frontend and backend components.

## 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

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