MIHALIS MOUNOUCHOS

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PROFESSIONAL SUMMARY

Software engineer with two years of professional experience building and delivering end-to-end scalable production software. Strong background in full-stack development, AWS, Linux, automation, and CI/CD, with a proven ability to independently design, build, deploy, and maintain full-stack production systems across the full application lifecycle.

PROFESSIONAL EXPERIENCE

Software Engineer | National Monitoring, AVR Group | 2024 - Present
- Sole engineer responsible for the development, design, deployment, and management of multiple production web applications.
- 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