Charles Smyth

MSc Information Systems, BSc Cyber Security;
presently, an MLSE Production Support Technician
and indie DevOp Developer. **LinkedIn**

Stalybridge,
Manchester; willing to relocate.
charles.richard.smyth@gmail.com
https://github.com/charlesrichardsmyth/cv

EXPERIENCE

MTIX, Huddersfield — *MLSE Production Support*

January 2024 - PRESENT

At present, I support the engineering department with the MLSE machines; with running textiles, training customers, supporting research, and self-managed complementary IT projects.

MTIX, Huddersfield — MLSE *IT Support Technician*

January 2023 - January 2024

A TUPE transfer from 313m to MTIX.

313m, Huddersfield — *IT Support Technician*

September 2021 - January 2023

The only member of the IT team for a laboratory startup, ranging in function and composite responsibilities between 1st line IT support and IT manager.

EDUCATION

University of Sheffield, The Information School, — *MSc Information Systems 2:1*

September 2021 - October 2023

Sheffield Hallam University, Sheffield— *BSc Cyber Security 2:1*

September 2018 - July 2021

PROJECTS

Ziggybyte, Stamford — An infrastructure and operations project

My current focus is on refining my homelab facility, expanding it for purpose-driven experimentation. Using a combination of TrueNAS Scale and Core, Pfsense, and Proxmox, I am expanding my robust microserver SAS storage system to include three ultra-small form factor PCs as a dedicated clustered compute layer. I am replacing a microserver Pfsense instance with another SFF PC with a higher spec and a lower power draw; repurposing the existing microserver, with SSD drives and ECC RAM, to be a dedicated database machine using Proxmox, leveraging iSCSI storage from the TrueNAS Scale box to provision storage for a Proxmox Backup Server virtual machine on the same box.

SKILLS

A man of many projects, I apply my systems design and modeling skills on a number of development projects and comprehensive project plans.

A comprehensive education and private pursuit of network and infrastructure engineering and administration, including provisioning public and private personal cloud applications, file and both SQL and NoSQL storage.

Experienced with virtualisation, with Proxmox, VMWare Workstation, AWS; including a long history with a range of disparate, i.e., UNIX & Debian based, operating systems. Also experienced with M365 and cPanel administration.

Experienced with containerisation, with Docker, Docker Compose, Docker Stack, Kubernetes; K3S, and K8S, K3S most recently.

LANGUAGES

Experienced programmer, having been educated in, and inventive with, Python, HTML, CSS, SQL, Gremlin, Java, JavaScript, Bash, Powershell, including object-oriented programming.