

Matthieu Daniel-Thomas

Systems & Infrastructure Engineer | SRE

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PROFILE

Systems & Infrastructure Engineer completing a Master's in Cloud & Networks. Specialized in declarative Infrastructure-as-Code (NixOS, Terraform), container orchestration (Kubernetes, Docker), and GitOps deployments for high-reliability environments.

WORK EXPERIENCE

IT Engineer - Apprenticeship CEA (French Alternative Energies and Atomic Energy Commission)
Paris-Saclay

2023 – 2026

- Virtualized Infrastructures & Networking: Designed and deployed a high-availability Proxmox cluster with a dedicated network for particle accelerator control systems using NixOS and EPNix.
- Infrastructure as Code (IaC) & Reproducibility: Developed and maintained custom NixOS modules to automate OS configuration management and drift-free deployments.
- Distributed Storage: Conducted performance benchmarking campaigns (IOPS, latency, throughput) on a Ceph storage cluster to dimension the data processing infrastructure.
- Software Integration & Automation: Developed a control-command module (EPICS IOC) in Python for interfacing superconducting cavity test bench equipment.

TECHNICAL PROJECTS

InfraLab - Private IaaS Cloud ESGI, Paris

2025 - 2026

- Designed a multi-tenant private cloud mimicking an OpenStack-like IaaS with Proxmox, enabling dozens of students to provision virtual machines with no external infrastructure costs.

Homelab & Kubernetes Cluster Personal

2020 – Present

- Deployed a fully declarative GitOps infrastructure on NixOS with a bare-metal Kubernetes cluster.
- Automated secure application exposure (Traefik, Nginx), automated certificates, and full observability stack (Prometheus, Grafana, Loki).

SKILLS

IaC & Automation: NixOS Terraform Ansible GitOps Nix

Containers & Orchestration: Kubernetes Docker Podman

CI/CD & Tooling: GitLab CI GitHub Actions NetBox Git

Systems & Virtualization: NixOS Linux (Debian, RHEL) Proxmox Ceph libvirt VMware ESXi

Observability: Prometheus Grafana Loki Alertmanager

Network & Services: BGP OSPF VyOS Keepalived/VRRP Traefik Nginx HAProxy

Development & Scripting: Python Bash JavaScript

EDUCATION

Master's — Systems, Networks & Cloud ESGI
Paris

2023 – 2026

BTS SIO (option SISR) — Associate Degree in IT Infrastructure Lycée Saint-Adjutor
Vernon

2021 – 2023