Sirajirath Boonmatham

Systems Administrator / DevOps Intern Candidate | ICT Student, Mahidol University

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SUMMARY

Information and Communication Technology student at Mahidol University seeking a Systems Administrator or DevOps internship. Runs a self-hosted Linux infrastructure (Debian, Ubuntu, Docker, nginx, Tailscale) with hands-on experience in server migration, reverse proxies, VPN networking, backup and restore, and troubleshooting. Also builds software in Python, JavaScript, C# and Lua.

TECHNICAL SKILLS

Operating Systems: Linux system administration (Debian 13, Ubuntu Server), SSH, systemd service management

Containers: Docker, Docker Compose, Portainer

Networking: nginx (reverse proxy, stream SNI routing), Tailscale (mesh Virtual Private Network, VPN), iptables (DNAT), Domain Name System (DNS) with Cloudflare, TLS certificates (certbot)

Backup and Services: BorgBackup (backup and restore), Nextcloud, Jellyfin, Ollama, Open WebUI

Version Control: Git, GitHub

Programming: Python, JavaScript, C#, C++, C, Lua, HTML, CSS

Hardware: Raspberry Pi, Arduino

Tools: VS Code, Visual Studio 2022, Obsidian

PROJECTS

Linux Server Infrastructure (Homelab) 2025 - Present

- Administer a headless Debian 13 server (ASUS PN55 mini PC) and an Ubuntu VPS over SSH, managing services with systemd and Docker Compose.
- Migrated services from a Raspberry Pi to the new server, restoring Nextcloud from a BorgBackup and verifying health after cutover; resolved a post-migration notify_push error.
- Evaluated Proxmox against bare-metal Debian with Docker Compose and chose Debian based on RAM limits and iGPU passthrough concerns.
- Deployed and maintain Nextcloud, Jellyfin, Open WebUI and a Discord bot that runs 24/7 as a systemd service.

Reverse Proxy and Secure Network Gateway 2025 - Present

- Configured nginx on an Ubuntu VPS as the public gateway, using stream-based Server Name Indication (SNI) routing on port 443 to send each subdomain to the home server or a local site, with TLS certificates from certbot.
- Linked all machines with a Tailscale mesh VPN so home services are not exposed directly; manage DNS records and Email Routing for my domain in Cloudflare.
- Used iptables DNAT rules to forward game server ports over the VPN, and removed stale rules when hardware changed.

Game Server Hosting (Pterodactyl, Minecraft)

- Ran a Pterodactyl panel on a VPS with Wings nodes on home hardware over Tailscale, managing Minecraft (Fabric, Forge) servers as Docker containers behind an nginx reverse proxy.
- Diagnosed and fixed a Wings websocket crash loop caused by a wrong remote address and empty allowed origins, and later decommissioned the panel cleanly (database, cache, web vhost, certificate and routing entries).

Self-Hosted LLM Server 2026 - Present

- Run Ollama as a systemd service serving Gemma 4 (chat) and Qwen2.5-Coder (autocomplete) with Open WebUI as the frontend; tuned for an AMD iGPU over Vulkan because ROCm does not support it.
- Configured VS Code with the Continue extension to use the local models, replacing GitHub Copilot.

Portfolio Website 10/2025 - Present

- Personal site (HTML, Tailwind CSS, JavaScript) self-hosted on my own VPS behind nginx: portfolio.itsmoakey.net.

OTHER PROJECTS

- cFart (2026 - Present): in-development collaborative project to help MUICT students practice programming using a VS Code extension.
- Project E.D.I.T.H. (2026 - Present): in-development personal AI assistant with a custom frontend and orchestration layer on local LLMs and smart-switch hardware controlled through a Raspberry Pi.
- Chrome and Edge extensions on Manifest V3 (2026): Auto Next Tab, and a tab isolation extension that prevents private tabs being exposed while screen sharing.
- AI Help Support Assistant (2026): frontend using Retrieval-Augmented Generation (RAG) and web search.
- Garry's Mod fishing addon in Lua for the Rebel Alliance Initiative (2026 - Present).
- OrbitSweep (2025 - Present): a Godot game using real orbital mechanics.
- Unity 3D player controller framework and Space Engineers C# scripts (2024); Roblox games and tech demos (2022 - 2025).
- Prototype robotic arm (2023 - 2024) and Arduino automatic plant watering machine (2021).

EDUCATION

Mahidol University (MUICT) 2026 - Expected 2030
Faculty of Information and Communication Technology, B.Sc. Information and Communication Technology, Year 1

Benchamatheputhit Petchaburi School 2023 - 2026
Science-Maths Bilingual Program, GPA 3.4

CERTIFICATIONS AND AWARDS

- Gold Medal, Line Tracking Robot (No Fan) Championship, TO BE NUMBER ONE.
- 2nd Place, AI Image Generation Competition, Benchamatheputhit Petchaburi School.
- JavaScript Algorithms and Data Structures, freeCodeCamp.
- Python Programming with AI, and Data Science for Youth (SQL, basic data models), Mahidol University.
- Data Mining and Computer Vision training courses, KMUTNB.

LANGUAGES

Thai: Native
English: TOEIC 935, IELTS 7.5