

Toki Tauhid Mim

Infrastructure Engineer · DevOps Practitioner Kushtia, Bangladesh | Open to Remote Opportunities

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PROFESSIONAL SUMMARY

Infrastructure-focused CS student with hands-on experience managing a 24/7 homelab running 18 containerized services across 4 segmented VLANs with 12+ active nodes. Proven skills in Linux system administration, Docker orchestration, network security, and technical documentation. Seeking a remote junior DevOps, SRE, or Network Administration role with European startups or open-source organizations.

TECHNICAL SKILLS

- **Operating Systems:** Arch Linux (Headless & Desktop), CachyOS, Wayland (Hyprland, Niri)
- **Containerization & IaC:** Docker, Docker Compose (declarative service definitions), Portainer
- **Networking & Security:** VLAN Segmentation, Tailscale VPN, DNS Management, Reverse Proxies (Nginx/Caddy), Wireshark, Pi-hole
- **Scripting & Automation:** Bash, Fish Shell scripting, cron-based scheduling
- **Cloud & Edge Services:** Cloudflare Pages, Cloudflare KV, Cloudflare Tunnels, Cloudflare DNS
- **Development & Tools:** Git, VS Code, fzf, btop, AI-Augmented Development Workflows
- **Web Technologies:** HTML/CSS/JS, Docusaurus

INFRASTRUCTURE & HOMELAB EXPERIENCE

Homelab System Administrator | *Self-Hosted Infrastructure* | 2021 – Present - Architected and maintain a 24/7 production-grade homelab running **18 containerized services** with **99%+ uptime** across a segmented VLAN network with **12+ active nodes**. - Designed and implemented a **4-zone network architecture** (IoT, Server, Guest, Personal) using VLAN segmentation, reducing cross-zone attack surface and isolating untrusted devices. - Deployed network-wide DNS filtering via Pi-hole, blocking **~30% of total DNS queries** and eliminating ads/telemetry across all network zones. - Configured zero-trust remote access using Tailscale, including a dedicated Android gateway (OnePlus 6T, Magisk) with thermal-safe 24/7 operation for persistent home network connectivity. - Automated media server pipelines (Jellyfin/Arr stack) and cross-device file synchronization (Syncthing), reducing manual content management overhead by an estimated **80%**. - Authored Bash scripts for container health monitoring, automated backups, and system provisioning, reducing new service deployment time from hours to minutes.

SELECTED PROJECTS

Orios Class Portal | *Docusaurus, Cloudflare KV, Cloudflare Pages* | [Live Site](#) • [GitHub](#) - Developed and deployed a centralized educational resource portal, consolidating fragmented note-sharing for **40+ university students** and reducing coordination overhead by an estimated **80%**. - Engineered a serverless architecture utilizing Cloudflare KV for zero-cost, high-performance reads — eliminating the need for a traditional database while maintaining sub-second load times. - Currently in active daily use, serving as the primary academic resource hub for the department.

Homelab Setup Documentation | *Arch Linux, Docker, Tailscale* | [GitHub](#) - Authored comprehensive open-source documentation covering the end-to-end setup of an **18-service containerized environment** — networking, remote access, security, and Cloudflare Tunnel integration. - Written to enable reproducibility; guides readers from bare-metal Arch Linux installation through full-stack self-hosted infrastructure deployment.

RTSP Recorder | *Android, Java, RTSP Protocol* | [GitHub](#) - Built a lightweight Android application for 24/7 continuous RTSP IP camera recording, eliminating dependency on proprietary surveillance software. - Deployed on a dedicated mobile device, achieving **3+ weeks of continuous uptime** with zero manual intervention and minimal resource consumption.

LEADERSHIP & MENTORSHIP

Technical Mentor | *Rabindra Maitree University (Orios Class)* - Mentor **15+ university peers** in practical DevOps and development skills including Git workflows, networking fundamentals, and IDE optimization. - Designed and led hands-on workshop sessions, resulting in peers independently adopting version control, SSH-based workflows, and modern development environments. - Focus on teaching the *intuition* behind systems and tools — fostering independent problem-solving rather than rote memorization.

EDUCATION

Bachelor of Science in Computer Science and Engineering (BSc CSE) *Rabindra Maitree University (RMU), Kushtia, Bangladesh* | *Expected Graduation: 2028* - Relevant Coursework: Computer Networks, Operating Systems, Database Systems, Data Structures & Algorithms - Recognized as a technical resource among peers for Linux administration, networking, and development environment setup.