

Zaw Wana

DevSecOps Engineer

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PROFESSIONAL SUMMARY

DevSecOps Engineer with 2+ years building, securing, and operating production infrastructure. I work across the whole delivery path — Kubernetes and Helm on the platform, Terraform and Ansible for provisioning, Jenkins and ArgoCD for GitOps delivery, and Vault, CyberArk, and LDAP for the access controls around it — with the monitoring and observability to know when any of it breaks. Computing Science honours graduate, Singapore Institute of Technology.

TECHNICAL SKILLS

Platform & Containers: Kubernetes, Helm, Docker, Containerisation, Linux, Windows Server, Proxmox

CI/CD & GitOps: Jenkins, ArgoCD, GitLab CI, GitOps, Git, Continuous Integration, Continuous Delivery

Infrastructure as Code: Terraform, Ansible, Configuration Management, Infrastructure as Code

Cloud: Amazon Web Services (AWS), Amazon S3, Hybrid Cloud, Cloud Infrastructure

Security & Identity: HashiCorp Vault, CyberArk, Privileged Access Management (PAM), LDAP, Identity & Access Management (IAM), Secrets Management, IPsec VPN, DevSecOps

Operations: Linux Administration, System Administration, Incident Response, Troubleshooting, Root Cause Analysis, Patch Management, OS Hardening, Production Support

Observability: ELK Stack, Elasticsearch, Logstash, Kibana, Prometheus, Grafana, Zabbix, OpenSearch, Monitoring, Log Aggregation, Alerting

Databases: MariaDB, Galera Cluster, MySQL, MongoDB, Redis, High Availability, Backup & Recovery

Languages & Frameworks: Python, Bash, JavaScript, TypeScript, Java, Spring Boot, React, Node.js, Express, Flutter, Microservices, REST APIs

WORK EXPERIENCE

DevSecOps Engineer, NCS

Nov 2025 — Present

Video Intelligence — identity, secrets, network access, and observability across the on-prem estate.

- DevSecOps for the Video Intelligence platform — identity, secrets, and network access as code rather than tickets
- Managed privileged access with CyberArk and centralised service credentials in HashiCorp Vault, removing long-lived secrets from configuration
- Ran LDAP-backed authentication and group authorisation across mixed Linux and Windows Server estates
- Configured IPsec VPN tunnels so field mobile devices could reach internal systems without exposing them publicly
- Built out MariaDB on a Galera cluster — synchronous multi-master replication so the database survives a node loss without failover downtime or manual promotion
- Ran monitoring and observability on the ELK stack — cluster and systemd service logs, MariaDB among them, aggregated into dashboards and alerts so failures surface before users report them
- Provisioned the platform's infrastructure with Terraform, so environments are described in code and rebuilt from it rather than reassembled by hand
- Worked on NGINE, HTX's enterprise AI infrastructure — L2 engineering across Day 1 build and Day 2 operations, as Database Engineer on schema design, tuning, and backup and recovery

DevOps Engineer, Singtel

Sep 2024 — Jul 2025

Infrastructure, delivery, and operations behind Singtel's NaaS, 5G, and multi-access edge computing (MEC) products.

- Supported Network as a Service (NaaS) and 5G multi-access edge computing (MEC) products — compute pushed out to the edge of the network, where latency budgets are measured in milliseconds
- Automated infrastructure provisioning with Terraform and standardised Kubernetes deployments with Helm
- Maintained and extended Jenkins CI/CD pipelines to streamline delivery and infra automation
- Delivered application rollouts through ArgoCD — Git as the source of truth, with cluster drift reconciled automatically instead of patched in place
- Ran day-to-day operations across Linux servers and Kubernetes clusters — first responder when something broke, tracing failures from node to pod to service and getting them back
- Owned OS patching and update cycles across the Linux fleet, keeping systems current and vulnerabilities closed without taking production services down
- Implemented full-stack monitoring with Zabbix across infrastructure, network, and application metrics
- Troubleshooted and performance-tuned OpenSearch, MySQL, Redis, MongoDB, and container workloads

- Wrote Python automation for security (IoC IP filtering) and operations (system health checks)
- Ran daily operations for Docker and virtualised environments through Ansible

Software Engineer, Urban Farming

Oct 2022 — Apr 2023

An IoT aggregation hub turning raw sensor metrics into crop-yield decisions. (Part-time, alongside my degree)

- Engineered a React + Node/Express hub aggregating real-time environmental metrics from IoT sensors
- Structured the backend as Spring Boot microservices — ingestion, processing, and the API as separate deployable services rather than one process
- Designed a responsive dashboard translating complex sensor data into plant-health insights
- Gave the farming team one source of truth to optimise irrigation, lighting, and climate control

EDUCATION

Singapore Institute of Technology

Aug 2022 — Apr 2025

BSc Computing Science (Honours)

Temasek Polytechnic

Apr 2017 — Feb 2020

Diploma in Business Process with Systems Engineering

CERTIFICATIONS

Certified Kubernetes Administrator — Cloud Native Computing Foundation. Exam booked — 13 Aug 2026

AWS Certified Solutions Architect — Associate — Amazon Web Services. Exam booked — 5 Sep 2026