

YASAS BANUKA

DevOps / Cloud Infrastructure Engineer

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CAREER SUMMARY

Production-minded DevOps engineer who led the Prime Minister-attended national launch of Sri Lanka's UoVT website with zero downtime, while neutralizing a live SSH brute-force campaign on the same server. BEng Software Engineering graduate, currently a final-year undergraduate in BTech Network Engineering, with hands-on depth in AWS, Docker, CI/CD pipelines, and Linux server operations - looking to bring that same production discipline to cloud infrastructure and DevOps engineering roles.

TECHNICAL SKILLS

- **Cloud & Infrastructure:** AWS EC2, AWS S3, AWS Lambda, Docker, Nginx, VM provisioning, Linux server administration
- **CI/CD & Automation:** GitHub Actions, Git, deployment pipelines, release automation, Bash scripting, YAML
- **Containers & Orchestration:** Docker, Docker Compose, Kubernetes, multi-service stack management
- **Monitoring & Observability:** Prometheus, Grafana, Micrometer, Spring Actuator, custom dashboards, health checks
- **Networking & Security:** SSH hardening, Fail2Ban, UFW firewall rules, TLS/HTTPS, JWT, rate limiting, environment secrets management, Spring Security
- **Backend & Data:** Spring Boot, Python, REST APIs, PostgreSQL, pgvector, MySQL

PROFESSIONAL EXPERIENCE

Infrastructure & DevOps Lead | University of Vocational Technology | Project-based Jan 2026 – Present

- Executed a zero-downtime production release of the national UoVT website during a high-visibility launch attended by the Prime Minister of Sri Lanka - coordinating live environment validation, pre-launch health checks, and real-time incident response across a 2-server production/staging architecture.
- Architected and provisioned the full production and staging infrastructure from scratch, provisioning Ubuntu 22.04 VMs and configuring Docker, Docker Compose, Nginx, and GitHub Actions CI/CD pipeline to deliver a structured, repeatable release pipeline for a team of 7+ contributors.
- **Identified and neutralized an active SSH brute-force campaign exceeding 300,000 intrusion attempts by deploying and tuning Fail2Ban with progressive banning rules - restoring full server integrity, and maintaining 100% uptime throughout the incident.**
- Authored a production operations runbook covering the full server lifecycle - architecture decisions, deployment, SSL, secrets management, daily ops, monitoring, backup/recovery, security hardening, and emergency procedures - actively referenced by team members for independent server operations, eliminating single-point-of-failure dependency on any one operator.

STEM Mentor L2 | RoboticGen | Colombo, Sri Lanka | Hybrid / Parttime Dec 2025 – Present

- Deliver project-based Python and AI mentoring to K-12 students while contributing to curriculum development and guiding L1 mentors through structured knowledge transfer, building technical communication and cross-functional leadership alongside engineering practice.

Co-Founder & Lead Web Developer | WebDynamo Digital Agency | Remote Mar 2024 – June 2025

- Co-founded a remote digital agency serving Australian SME clients - owning end-to-end project delivery from requirements and scoping through to deployment, hosting setup, and post-launch support across multiple concurrent client environments.

Web Developer | WDCSE (PVT) LTD | Kottawa, Sri Lanka | Hybrid / Fulltime Jul 2023 – Apr 2024

- Maintained web environments and CMS configurations within a structured corporate setting - handling deployments, backups, and availability support across a 9-month full-time engagement.

PROJECTS

UoVT Official Website - Infrastructure Architecture & Operations

Infrastructure & DevOps Lead | University of Vocational Technology | uovt.ac.lk

- Architected a two-tier production/staging topology on Ubuntu 22.04 LTS - containerizing a Next.js frontend and Spring Boot backend with Docker Compose, fronted by Nginx as a reverse proxy with TLS termination and Cloudflare for DNS and DDoS edge protection.
- Designed a GitHub Actions pipeline with branch-mapped deployment triggers - staging branch auto-deploys for QA validation, production branch gates on linting and build checks before release, enforcing a structured promotion flow across a 7-person team.
- Hardened the production server with UFW restricting inbound ports to 80/443/SSH, Fail2Ban with progressive IP banning, key-only SSH authentication, and environment secrets managed outside version control.
- Produced a full operational runbook documenting architecture rationale, deployment procedures, SSL/TLS renewal, backup/recovery, and emergency protocols - designed for successor operators with no prior context on the system.

Technologies: Ubuntu 22.04 LTS, Docker, Nginx, GitHub Actions, Git, Bash, Next.js, Spring Boot, PostgreSQL, Cloudflare

Docura - Multi-Tenant RAG Engine (Production Cloud Deployment)

Individual Project | docura.iamyasasbanuka.me | github.com/YasasBanuka/docura-deployment

- Architected and deployed a 5-service Docker Compose stack on AWS EC2 - designing Nginx reverse proxy routing, TLS termination, and port exposure rules to deliver a production-grade multi-tenant RAG app accessible over HTTPS.
- Engineered end-to-end observability for the 5-service production stack using Prometheus and custom Grafana dashboards - tracking p95 request latency, container memory saturation, and per-tenant error rates, cutting mean time to diagnose anomalies from ~20 minutes to under 3 minutes.
- Designed a layered security model including JWT authentication, bcrypt password hashing, per-tenant rate limiting, and restricted service exposure - aligning the deployment with production security standards.
- Configured Nginx tuning and Spring Boot Actuator health endpoints to support stable production traffic handling and zero-downtime operational checks during iterative releases.

Technologies: AWS EC2, Docker, Docker Compose, Nginx, Prometheus, Grafana, PostgreSQL, pgvector, Spring Boot, JWT, Bash, HTTPS/TLS

EDUCATION

Bachelor of Engineering (Hons) in Software Engineering | IIC University of Technology

2022 – 2026

Bachelor of Technology in Network Engineering | University of Vocational Technology

May 2023 – 2027

CERTIFICATIONS

In-Progress: **AWS Certified Solutions Architect - Associate (SAA-C03)**

Completed: Fundamentals of DevOps – KodeKloud | Learning Linux Basics Course & Labs - KodeKloud | Microsoft Azure

Fundamentals (AZ-900) - KodeKloud

LEADERSHIP & COMMUNITY

Webmaster & Technical Activities Member | IEEE Sri Lanka Section (SLSAC)

Feb 2026 – Present

- Supporting technical coordination, digital communications, and structured execution of IEEE student branch initiatives.
- Prior IEEE roles: IEEEExtreme 19.0 Student Branch Ambassador, Chairperson IEEE Day 2025, Lead Organiser Xtremelgnite 1.0, Public Visibility Team Lead JamborIEEE 2025, Founding Chairperson TechSpark 1.0.

Co-Director of Service | Leo Club of Colombo Grand Circle

Dec 2024 – Present

- Leading community service initiatives and coordinating volunteer activities across club membership.