

SADEV SABUDDHIKA

Cloud Engineering Intern

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PROFILE

Information and Communication Technology undergraduate with hands-on project experience designing and deploying serverless and containerized infrastructure on Microsoft Azure. Comfortable across the stack: provisioning cloud resources, instrumenting applications for observability, and automating delivery with CI/CD and Docker. Seeking a Cloud Engineering or DevOps internship to build on real, self-directed project work in a production engineering environment.

EDUCATION

Bachelor of Information and Communication Technology (BICT) Hons

Sep 2023 - Present (UG)

Specialization in Computer Networks

Faculty of Computing & Technology, University of Kelaniya, LK

TECHNICAL SKILLS

- Cloud Platforms: Microsoft Azure (Static Web Apps, Functions, Cosmos DB, Virtual Machines, Communication Services)
- DevOps, CI/CD & Observability: Docker, Docker Compose, GitHub Actions, Git/GitHub, Prometheus, Grafana, Alertmanager, Linux (Ubuntu)
- Backend & Data: Python (FastAPI, Django), PostgreSQL, MySQL, Azure Cosmos DB (NoSQL)
- Web & Frontend: HTML, CSS, JavaScript
- Networking & Tools: Cisco Packet Tracer, Wireshark, MQTT, Jira, Azure Boards, Figma

KEY PROJECTS

Serverless Portfolio Platform — Live: sadevsabuddhika.tech

2026

React · Azure Static Web Apps · Azure Functions (Python) · Cosmos DB · Azure Communication Services · GitHub Actions

- Designed and deployed a live two-tier serverless web application on Azure, pairing Static Web Apps for asset delivery with Python Azure Functions for the API layer, scaling to zero during idle traffic to minimize hosting cost.
- Automated build and deployment with a GitHub Actions CI/CD pipeline using OIDC token authentication, skipping Azure's Oryx build step to deploy a pre-built static bundle directly.
- Optimized frontend performance by removing 141 unused dependencies, cutting compiled CSS bundle size by 59% (to 35.70 kB).
- Implemented a NoSQL data layer in Azure Cosmos DB to persist visitor-counter and contact-form data, and added a second Azure Function as a dedicated email dispatcher.
- Built a custom sliding-window rate limiter using proxy headers to guard API endpoints against request flooding.
- Integrated Azure Communication Services for automated contact-form email delivery, verified end-to-end with successful live test submissions.

Cloud Observability & Incident Response Pipeline

2026

Microsoft Azure (Linux VM) · Docker Compose · FastAPI · Prometheus · Grafana · Alertmanager · Telegram Bot API

- Built a containerized observability stack on an Azure Ubuntu VM to monitor a Python FastAPI microservice, orchestrating Prometheus, Grafana, and Alertmanager via Docker Compose on an isolated bridge network.
- Instrumented the application with custom Prometheus metrics (request counts, latency, status codes) on a 5-second scrape interval, and added dedicated test endpoints to simulate failures for alert validation.
- Configured Alertmanager to route triggered alerts to a Telegram bot; verified end-to-end delivery of a live incident notification within under a minute of a simulated failure.
- Built Grafana dashboards using PromQL to visualize request rate, HTTP 5xx error rate, and service uptime.

Documented with screenshots and architecture notes on [GitHub](#) (VM decommissioned post-testing).

Parithyaga — Donation Coordination Platform (Volunteer, RIKILI organization)

In Progress

Django · PostgreSQL · Next.js · Google Gemini AI · TypeScript · Docker · Prometheus · Grafana

- Co-developing (~50% of backend work) a resource-pledging platform connecting donors and NGOs, built for Parithyaga; development is ongoing and not yet complete.
- Designing role-based access control (RBAC) in Django REST Framework to isolate sensitive donor and organizational data by role.
- Contributing to containerizing application services with Docker Compose for consistent development and testing environments.

- Designed and programmed an IoT Switch Control Unit (SCU) edge device on ESP32/Arduino to automate industrial appliances.
- Retrofitted legacy infrastructure with low-latency MQTT messaging over Wi-Fi for automated building energy optimization.
- Project documents and proof: [Google Drive folder](#).

CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals (AZ-900) — In Progress
- Docker Certification — KodeKloud: [View Certificate](#)
- Cisco Networking Academy: [Linux Essentials](#), [IT Essentials](#)
- Microsoft Learn: Azure Core Architecture, Cloud Concepts, Functions, Monitoring Tools, Governance & Compliance, Intro to Azure IoT Hub — [View Badges](#)