

Hasitha Sandun Lakshan

 Portfolio |  GitHub |  LinkedIn

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SUMMARY

Computer Science undergraduate with hands-on experience in system design, backend engineering, cloud infrastructure, CI/CD, and deployment automation across cloud and on-premises environments.

WORK EXPERIENCE

Associate Software Engineer, Tortil Inc.

Jul 2026 – Present

- Integrated the Smart Schedule algorithm service with the existing backend through internal service-to-service APIs restricted to the Tortil network.
- Designed and developed personalized schedule generation and approval workflows.
- Reviewed peer pull requests and contributed to backend design and implementation decisions.

Software Engineer Intern, Tortil Inc.

Dec 2025 – Jun 2026

- Collaborated with multinational teams on backend design and development for the Smart Schedule platform.
- Proposed and developed a web-based data management system to replace an existing spreadsheet workflow.
- Designed the first phase of Google Analytics dashboards using Looker Studio.

Software Engineer (Freelance), Busy Ltd.

Feb 2025 – Jun 2025

- Worked directly with international clients to gather requirements and deliver production-ready applications.
- Designed and developed Travel Match, Montefusco, and HostPilot from system design through frontend, backend, database, and deployment.

Undergraduate Teaching Assistant, Database Systems, University of Moratuwa

Jul 2026 – Present

- Assisted students with database design, SQL, normalization, and database practical work.

PROJECTS

EDelivery.lk: Multi-Tenant Delivery Management Platform

Jan 2026 – Mar 2026

 [Live Site](#)

Tools: DigitalOcean, Terraform, Ansible, Docker, Docker Compose, GitHub Actions, GHCR, Nginx Proxy Manager, PostgreSQL/PostGIS, Cloudflare R2

- Built separate staging and production environments on DigitalOcean using Terraform for infrastructure provisioning and environment-specific domain routing.
- Built GitHub Actions CI/CD pipelines to publish versioned Docker images to GHCR and deploy them to staging and production droplets over SSH.
- Used Ansible to configure production servers and automate nightly PostgreSQL backups to Cloudflare R2.
- Deployed the backend with Docker Compose behind Nginx Proxy Manager, with deployment health checks and automatic cleanup of old images.

Ellaam: Delivery Management & Tracking Platform

 [Private GitHub Repository](#)

Tools: TypeScript, Node.js, PostgreSQL, Supabase, AWS EC2, ECR, Terraform, Docker, GitHub Actions

- Defined AWS infrastructure with Terraform for EC2, ECR, IAM roles, and security groups.
- Built a GitHub Actions pipeline to publish Docker images to ECR and deploy the backend to EC2 using OIDC authentication.
- Implemented backend integrations using PostgreSQL triggers, webhooks, and Supabase Edge Functions.

Agenda Online: Multi-Tenant Appointment Booking Platform

Jan 2026 – Jun 2026

 [Live Site](#)

Tools: Next.js, TypeScript, PostgreSQL, Supabase, GitHub Actions, Vercel, Stripe, Twilio

- Architected a multi-tenant appointment booking platform with a bitmask-based scheduling engine for availability and slot conflict checks.
- Built GitHub Actions workflows for pull request previews, staging and production deployments, and Supabase migrations, including migration validation against a reconstructed production database baseline.
- Automated scheduled Stripe recovery and appointment reminder workflows using Vercel Cron.

SriPage: On-Premises Document Processing Platform

Sep 2026 – Present

Final Year Project |  *Private GitHub Repository*

Tools: Next.js, NestJS, BullMQ, PostgreSQL, MinIO, Docker, GitHub Actions

- Architected an on-premises distributed system with backend services, separate processing workers, PostgreSQL, and MinIO object storage.
- Designed asynchronous processing with BullMQ queues for preprocessing and additional processing pipelines, including planned VLM workloads.
- Set up a self-hosted GitHub Actions runner inside the on-premises network for CI/CD because GitHub-hosted runners cannot directly access the infrastructure.

DevOps Home Lab: Linux Infrastructure & Automation

 *Private GitLab Repository*

Tools: Ubuntu, Terraform, Ansible, Docker, GitLab, HAProxy, Prometheus, Grafana

- Set up multiple Ubuntu VMs with Terraform for backend services, load balancing, and monitoring.
- Used Ansible to configure the servers and deploy multiple backend instances, with HAProxy distributing traffic between them.
- Added Prometheus and Grafana to monitor system and service metrics across the environment.

EDUCATION

University of Moratuwa

Bachelor of Science (Honours) in Computer Science and Engineering

2023 – Present

Expected Jun 2027

CERTIFICATIONS & TRAINING

- KodeKloud Engineer: 100 Days of Cloud (AWS) (*KodeKloud*)  [Verify](#)
- AWS SimuLearn: Cloud Practitioner Training Badge (*AWS*)  [Verify](#)
- Learning Linux Basics Course & Labs (*KodeKloud*)  [Verify](#)
- AWS Certified Solutions Architect Associate (*In Progress*)
- Redis Associate Cloud Operator (*In Progress*)

SKILLS

Cloud & Infrastructure	AWS, DigitalOcean, Linux, Terraform, Ansible
Containerization & CI/CD	Docker, GitHub Actions, GitLab CI/CD, GHCR, Jenkins
Monitoring	Prometheus, Grafana
Databases	PostgreSQL/PostGIS, Supabase, MySQL, MongoDB
Programming Languages	Java, TypeScript, JavaScript
Backend Frameworks & Technologies	Spring Boot, NestJS, Node.js, Express.js