

Tharuka Mannapperuma

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PROFILE

Certified and experienced DevOps engineer and Golang developer with strong skills in designing and implementing efficient CI/CD pipelines and delivering high-quality solutions. Good communicator with a deep passion for technology and the ability to work efficiently both individually and in a team.

EXPERIENCE

- **MyBudget Holdings - Colombo, Sri Lanka** On Site
DevOps Engineer (Full-time) August 2022 - Present
 - **Cloud Infrastructure Management:** Implemented Infrastructure as Code (IaC) with Terraform and Ansible, improving efficiency by 60%.
 - **CI/CD Pipeline Optimization:** Configured and optimized pipelines using CircleCI, ArgoCD, and Azure DevOps, reducing deployment time by 50%.
 - **Custom Solution Development:** Developed Kubernetes cluster info API (Go), secure webhook for Google IAP services (NodeJS), and sprint automation (Python).
 - **Containerization Optimization:** Built custom Docker containers for CI/CD pipelines, reducing execution time by 50%. Deployed solutions to private AKS Cluster.
 - **Database Management Enhancement:** Implemented Flyway for database versioning. Separately automated user creation, permissions management, and index file creation using Shell, YAML, and Python.
 - **Logging and Monitoring Improvement:** Deployed Elasticsearch with Fluentd, reducing logging overhead by 25%. Set up Datadog and SonarQube in GKE.
 - **Application Management Streamlining:** Revamped Kafka schema management and maintained up-to-date VM patches.
- **MillenniumIT ESP - Colombo, Sri Lanka** On Site
Intelligent Automation Engineer (Full-time) May 2022 - August 2022
 - **Edge Computing Platform Implementation:** Led deployment of EdgeXpert, integrating legacy systems with new IoT devices. Implemented Docker-based infrastructure for rapid application scaling.
 - **National Fuel Distribution Project:** Contributed to QR code system implementation for fuel distribution in Sri Lanka. Utilized Grafana and PowerBI for insights into distribution patterns.

TECHNOLOGY STACK

- Golang
- Python
- Java
- JavaScript
- BASH
- Google Cloud
- Azure
- AWS
- ArgoCD
- CircleCI
- Prometheus
- Grafana
- Git
- Kubernetes
- Kafka
- Docker
- Terraform
- Ansible
- Jira
- GitLab

EDUCATION

- **University of Moratuwa** Sri Lanka
BSc. Engineering(Hons) in Electronic & Telecommunication; Second Class Upper Division Aug 2017 - Jan 2022
Courses: Machine Learning, Communication Systems, Control Systems, Embedded Systems, Computer Networks, Software Engineering, Data Structures

PROJECTS

- **Hush - Go Package for Sensitive Data Masking (Data Security, Go Programming):** Open-source Go package providing flexible and efficient processing and masking of sensitive data in various data structures. Utilizes Go's reflection capabilities for handling dynamic data types. GitHub Link. Tech: Go, Reflection. (August '24)
- **Goconf - Enhanced Environment Configuration Loader (Configuration Management, Go Programming):** Modified fork of an existing package to load environment configurations with added masking functionality. Improves application security by implementing secure handling of sensitive configuration data. GitHub Link. Tech: Go, Environment Variables. (August '24)
- **File Integrity and Privilege Access Management Solution (Cybersecurity, System Administration):** Developed a comprehensive solution to monitor file integrity and manage access to servers, enhancing overall system security. Integrated multiple technologies for a robust security framework. Tech: ELK Stack, Wazuh, Bastion Host.

PROFESSIONAL QUALIFICATIONS

- Certified Kubernetes Administrator (CKA) The Linux Foundation, Jul 2024 [Credential](#)
- Professional Cloud Architect Certification Google Cloud, Jul 2024 [Credential](#)
- Oracle Cloud Infrastructure 2023 Certified DevOps Professional Oracle, Aug 2023 [Credential](#)
- Linux Systems Administration and DevOps Engineering WSO2 Certifications, Dec 2021
- Microsoft Certified: Azure Fundamentals Microsoft, May 2021 [Credential](#)
- The Aviatrix Certified Engineer (ACE) Multicloud Network Associate Aviatrix, July 2020 [Credential](#)