



HIMASHA RANAWEEERA

SENIOR DEVOPS ENGINEER & DEVOPS LEAD | AWS & AZURE SPECIALIST

CI/CD Automation • Infrastructure as Code • Kubernetes & Container Orchestration

CONTACT

- Kadawatha, Sri Lanka
- sumuranaweera@gmail.com
- +94(77) 235 2512
- <https://www.linkedin.com/in/sumudu-ranaweera-23340b160/>
- <https://github.com/Sumudu-Himasha-Ranaweera>

SUMMARY

Senior DevOps Engineer with **5+ years** of experience in cloud infrastructure and **2+ years** leading AI-assisted development using Claude AI, GitHub Copilot, and Cursor IDE. Currently at IFS R&D International, driving DevOps excellence through CI/CD automation, Infrastructure as Code (Terraform), and pioneering Model Context Protocol (MCP) server implementations for team productivity. Proven track record delivering enterprise infrastructure migrations, AI platform enablement, and Terraform upgrade initiatives. Passionate about mentoring teams and leveraging AI tools to accelerate software delivery.

PROFESSIONAL EXPERIENCE

IFS R&D International (Pvt) Ltd

Senior DevOps Engineer

07/2024 – present | Colombo

- Designed and deployed Azure cloud infrastructure (AKS, API Management, Front Door, Service Bus) using **Terraform** for multi-tenant SaaS platform
- Developed **ARM Templates** for backup policies, Cosmos DB configurations, Azure SQL databases, and storage account provisioning
- Built **.NET** Core microservices including Profile, Users, Permissions, and Attachments APIs with **OAuth 2.0** security
- Created custom DevOps CLI tools and Terraform plugins to automate infrastructure provisioning and deployments
- Implemented CI/CD pipelines (Azure DevOps YAML) and Docker containers for standardized build and release processes
- Implemented **Angular-based UI framework** with reusable components for internal applications

Category	Skills
Cloud Platforms	Microsoft Azure (AKS, App Service, Functions, API Management, Front Door, Storage, Cosmos DB, Key Vault, Service Bus)
Infrastructure as Code	<ul style="list-style-type: none">TerraformARM TemplatesAzure BicepAnsible
DevOps & CI/CD	<ul style="list-style-type: none">Azure DevOpsYAML PipelinesGitDockerKubernetes
Databases	<ul style="list-style-type: none">SQL ServerCosmos DBOracleAzure Table Storage
Security	<ul style="list-style-type: none">OAuth 2.0JWTAuth0Azure ADRBAC
Scripting & Automation	<ul style="list-style-type: none">PowerShellBashAzure Runbooks

TECHNICAL SKILLS

DEVOPS & AUTOMATION

CI/CD	<ul style="list-style-type: none">○ Jenkins○ Azure DevOps○ GitHub Actions
Infrastructure as Code	<ul style="list-style-type: none">○ Terraform○ Ansible○ Chef○ ARM Templates
Containerization	<ul style="list-style-type: none">○ Docker○ Kubernetes (AKS/EKS)
Monitoring & Logging	<ul style="list-style-type: none">○ Grafana○ CloudWatch○ Azure Monitor○ OpsWorks
Project Management	<ul style="list-style-type: none">○ JIRA○ Azure Boards

PROFESSIONAL EXPERIENCE

CodeGen International (PVT) LTD

Cloud Engineer

07/2022 – 12/2022 | Colombo

Senior Cloud Engineer

12/2022 – 07/2024 | Colombo

- Designed scalable cloud infrastructure on **Azure** and **Oracle Cloud platforms** for enterprise clients (IaaS/PaaS)
- Managed cloud hosting solutions: network architecture, VMs, storage, and container orchestration (Docker, Kubernetes)
- Implemented CI/CD pipelines using Jenkins and Terraform, reducing deployment time by 60%
- Developed backend applications using Node.js for cloud-native services
- Administered Linux servers and integrated security measures across all cloud infrastructure
- Collaborated with teams to troubleshoot issues and communicate technical solutions

Technologies: Azure, Oracle Cloud, Docker, Kubernetes, Jenkins, Terraform, Node.js, Linux

CLOUD PLATFORMS

Azure	<ul style="list-style-type: none">○ VMs [Linux/Windows]○ AKS○ Azure DevOps○ ARM Templates○ Storage○ Functions
AWS	<ul style="list-style-type: none">○ Lambda○ API Gateway○ S3○ DynamoDB○ ECS○ Event-Buses○ IAM Roles
Oracle Cloud	<ul style="list-style-type: none">○ OCI Compute○ Container Engine○ K8

Pearson Lanka (PVT) LTD

Associate Site Reliability Engineer

07/2021 – 07/2022 | Colombo

- Managed infrastructure for Pearson International SRE team supporting web-based learning platforms serving 100K+ students
- Automated deployment processes using AWS, Terraform, Ansible, and Chef in agile environment, reducing manual deployment time by 50%
- Handled database operations, application upgrades, and infrastructure deployments using Jenkins, Docker, and OpsWorks
- Collaborated with cross-functional teams to ensure system reliability, stability, security, and cost-effectiveness
- Managed day-to-day production support, incident response, and delegated tasks within team

Technologies: AWS, Terraform, Ansible, Chef, Jenkins, Linux, JIRA, Docker

TECHNICAL SKILLS

AI DEVELOPMENT & TOOLING

AI Assistants	<ul style="list-style-type: none">○ Claude Code○ GitHub Copilot○ Cursor AI
MCP Servers	<ul style="list-style-type: none">○ Serena○ Azure DevOps○ Zen (ThinkDeep)○ Puppeteer○ Task Master
AI Automation	<ul style="list-style-type: none">○ Custom slash commands○ subagent design○ multi-project orchestration

INFRASTRUCTURE & SYSTEMS

Operating Systems	<ul style="list-style-type: none">○ BASH scripting○ Python○ Java○ .NET
Scripting	<ul style="list-style-type: none">○ JavaScript○ TypeScript○ Node.js
Testing	<ul style="list-style-type: none">○ Vitest○ Jest○ Unit/Integration Testing
Version Control	<ul style="list-style-type: none">○ Git○ GitHub○ GitLab

Professional Experience

Rizing Lanka PVT LTD

Associate Software Engineer

06/2019 – 05/2020 | Colombo

- Involved Work with the .NET Framework, front- end technologies (ReactJS), and the Azure Cloud Platform.

Technical Consultant

06/2020 – 07/2021 | Colombo

- Worked with the. NET Framework, front- end technologies (ReactJS), and the Azure Cloud Platform.
- Developed backend services using Node.js on AWS Lambda.
- Implemented serverless architecture with AWS services like API Gateway, DynamoDB.

Skills: AWS Lambda, API Gateway, Dynamo DB, S3, Bucket, Node.js, React JS, Type Script

TECHNICAL LEADERSHIP & AI EXPERTISE

AI Development Tooling & Automation (2+ Years Experience)

- Led adoption of AI-assisted development tools across engineering team using Claude AI, GitHub Copilot, and Cursor IDE, achieving **30%+ productivity gains**
- Architected and implemented **8 MCP** (Model Context Protocol) server integrations:
 - **Claude Code**: 40+ custom slash commands for automated workflows
 - **Azure DevOps MCP**: Story/bug/PR management via slash commands
 - **Serena MCP**: Structured memory files, Docker packaging, multi-project support
 - **Zen MCP**: AI capability matrix and command standardization
 - **Task Master MCP**: PRD refinement workflows and automation
 - **Puppeteer MCP**: Browser automation integrated with slash commands
- Developed 40+ custom Claude Code slash commands for team productivity
- Built Claude Code subagent patterns with scope isolation and safety rails
- Created multi-project workspace framework for cross-repo orchestration
- Delivered AI platform training enabling 80% team adoption

TECHNICAL SKILLS

BACKEND TECHNOLOGIES

Databases	<ul style="list-style-type: none">DynamoDBSQLPostgreSQL
APIs	<ul style="list-style-type: none">REST APIsAzure DevOps API
Serverless	<ul style="list-style-type: none">AWS LambdaAPI GatewayAzure Functions
Frameworks	<ul style="list-style-type: none">Node.jsExpress.js.NET Framework

FRONTEND TECHNOLOGIES

Frameworks	<ul style="list-style-type: none">React.jsReact NativeNext.js
Styling	<ul style="list-style-type: none">CSSTailwind CSS

KEY ACHIEVEMENTS & PROJECTS

AI Development Platform & Planning Automation | IFS R&D

Oct 2025 – Present

Led development of AI-powered planning workspace demonstrating advanced AI integration capabilities for enterprise software development lifecycle.

KEY INNOVATIONS:

- Pioneered custom AI agent framework using Claude Code with 40+ specialized slash commands for automated planning, feature breakdown, and technical documentation
- Architected Model Context Protocol (MCP) server integrating Claude AI with Azure DevOps, enabling natural language queries for work item management
- Implemented AI-powered decision support system for feature prioritization using multi-factor scoring ($\text{impact} \times \text{urgency} \div \text{effort}$)
- Delivered bidirectional ADO synchronization handling Features, Stories, Tickets, and Bugs across multi-project hierarchies
- Achieved 60% reduction in planning overhead through intelligent automation and AI-assisted workflows
- Built production-grade system with 213+ tests, comprehensive documentation, and TDD methodology across 8 development phases

IMPACT: Enabled team of 8 engineers to manage 18 concurrent features across 26-week PI with automated capacity planning, dependency tracking, and real-time sync with Azure DevOps.

Technologies:

Claude AI (Anthropic), Model Context Protocol (MCP), Node.js, Azure DevOps REST API, Vitest, Git, YAML/JSON Schema

IFS Tenant Migration – Hub-Spoke Infrastructure | IFS R&D

2025

Led infrastructure migration to IFS Tenant with hub-and-spoke topology using Terraform v1.13.3 baseline.

- Designed and deployed hub-spoke skeleton mirroring production topology with multi-hub attach capability
- Conducted module compliance inventory and migrated all modules to Terraform v1.13.3 baseline
- Integrated spoke environment for pre-prod validation with automated provisioning workflows
- Developed 6-month cutover plan with milestone tracking and risk mitigation; timeline approved by stakeholders

Technologies:

Terraform v1.13.3, Azure, Infrastructure as Code, Hub-Spoke Architecture

TECHNICAL SKILLS

PROGRAMMING LANGUAGES

Proficient	<ul style="list-style-type: none">○ BASH scripting○ Python○ Java○ .NET
Familiar	<ul style="list-style-type: none">○ JavaScript○ TypeScript○ Node.js

MACHINE LEARNING & DATA SCIENCE

Frameworks	<ul style="list-style-type: none">○ TensorFlow○ Keras○ Scikit-learn○ OpenCV
Techniques	<ul style="list-style-type: none">○ CNN○ Transfer Learning○ Image Classification
Tools	<ul style="list-style-type: none">○ Jupyter Notebook○ Kaggle○ NumPy○ Pandas○ Matplotlib

Terraform Platform Upgrades (0.12 → 1.x Migration) | IFS R&D

2025

Led sequential Terraform migration across platform infrastructure from 0.12 to 1.x with automated validation.

- Conducted comprehensive inventory of all Terraform modules and created dependency mapping for migration sequencing.
- Developed automated migration scripts for stepwise upgrades (0.12 → 0.13 → 0.14 → 1.x) with sandbox validation.
- Coordinated with product module teams for cross-team migration planning and dependency resolution.
- Created documentation and delivered training presentations to engineering teams on migration process and best practices.
- Achieved platform upgrade to 0.14 with v1.x path validated in IFS Tenant environment.

Technologies:

Terraform (0.12-1.x), Azure, Infrastructure as Code, CI/CD, Tfmigrate, Cosmos DB

AI Platform Enablement – Repository Documentation Automation | IFS R&D

2025

Standardized AI-friendly documentation across all repositories with automated CI-based generation.

- Created templates for CHANGELOG, Developer Guide, and Architecture diagrams with Serena memory integration
- Built CI automation for documentation generation achieving 100% repository coverage with repeatable workflows
- Implemented Serena memories for AI-assisted onboarding and codebase assessments across all active repos
- Delivered documentation standards and presented training to engineering teams for team-wide adoption

Technologies:

CI/CD Pipelines, Serena MCP, Markdown, Mermaid Diagrams, Git Automation

Research: Agrox – AI-Powered Cinnamon Quality Assessment System | SLIIT

JAN-DEC 2023

🏆 NBQSA 2023 Winners' Circle – Bronze Award

🏆 12th Rank – Hatch Works' Green Innovation Lab Program

Developed an AI and Machine Learning-based solution for automated cinnamon quality assessment and disease detection to support Sri Lankan agricultural research and export industry.

Research Area:

Image Processing, Computer Vision, Agricultural AI

Technologies:

Python, TensorFlow, Keras, OpenCV, Scikit-learn, Pandas, NumPy, Matplotlib, Kaggle Datasets, Jupyter Notebook, CNN, Transfer Learning

HIGHER EDUCATION



SLIIT (Sri Lanka Institute of Information Technology)

[2019-2023] – First Class

BSc (Hons) in Information Technology
Specializing in Software Engineering

GPA	3.74
-----	------

University of Moratuwa

[2018-2020]

Bachelor of Information Technology
BIT (HND)



University of Bedfordshire

[2018-2020]

Higher National Diploma in
Computer Science (HND)

GPA	3.28
-----	------

REFERENCE

Kavin Subasinghe

Senior Lead DevOps Engineer
E&R - Product Management

IFS R&D International Pvt Ltd
Orion Towers 1, Level 18 752,
Danister De Silva Mawatha,
Colombo 9

kavin.subasinghe@ifs.com

+94776852428

Gihan Buddhika

Software Specialist

DB Systel GmbH
Jürgen-Ponto-Platz 1
60329 Frankfurt am Main
Germany
WhatsApp: +94716436105

TECHNICAL LEADERSHIP & MENTORSHIP

- Mentored 3 junior DevOps engineers at IFS R&D on Infrastructure as Code, CI/CD pipelines, and cloud best practices
- Conducted knowledge-sharing sessions on Kubernetes, Terraform, and DevOps automation tools for 5+ team members
- Led code reviews and established infrastructure coding standards adopted across DevOps team
- Collaborated with Product, Development, and Security teams to align infrastructure solutions with business requirements
- Created technical documentation and runbooks for infrastructure operations, reducing onboarding time by 40%
- Participated in hiring and technical interviews for DevOps engineer positions

PROFESSIONAL CERTIFICATION

AZ-900: Microsoft Azure Fundamentals

SC-900: Microsoft Security, Compliance, and Identity Fundamentals

DP-900: Microsoft Azure Data Fundamentals

AI-900: Microsoft Azure AI Fundamentals

PL-900: Microsoft Power Platform Fundamentals

AWS Certified Cloud Practitioner Certification
(March 2022)

AWS Certified Solutions Architect
(Oct 2022)



1Z0-1085-23 |

Oracle Cloud Infrastructure 2023 Foundations Associate [Feb 2023]

11Z0-1105-23 |

Oracle Cloud Data Management 2023 Foundations Associate [March 2023]

Research Paper Publication 5th International Conference on Advancements in Computing

Certificate of recognition for the publication of the research paper. [2023]

