

Theenuka Bandara

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PROFILE

Third-year Computer Engineering undergraduate at University of Ruhuna with practical experience designing and deploying cloud infrastructure, CI/CD pipelines, and containerized systems on AWS. Successfully completed the WSO2 Linux Systems Administration & DevOps Engineering Training Program, selected from over 7,000 applicants.

EDUCATION

BSc (Hons) Computer Engineering

Expected June 2027

University of Ruhuna, Faculty of Engineering

G.C.E Advanced Level: AAB | Z-score: 1.844

Thurstan College, Colombo 07

SKILLS

Cloud & IaC: AWS (EC2, VPC, S3, RDS, ElastiCache, MQ, Beanstalk, CloudFront, CodePipeline, CloudWatch), Terraform, Ansible

Containers & Orchestration: Docker, Kubernetes, ArgoCD

CI/CD: Jenkins, GitHub Actions, AWS CodePipeline

Scripting & Tools: Bash, Python, Linux, Git, YAML

CERTIFICATIONS

AWS Certified Solutions Architect, Associate (SAA-C03)

March 2026

Amazon Web Services | [View credential](#)

EXPERIENCE

Linux Systems Administration & DevOps Engineering Training Program | WSO2 *Jul 2025 – Dec 2025*

- Selected from over 7,000 applicants for this 6-month program covering Linux administration, cloud-native architecture, CI/CD pipelines, container orchestration, and IAM.
 - Worked on multiple projects using AWS, Terraform, Ansible, Kubernetes, and Docker; served as group leader in the final capstone project, building a microservice-based hotel reservation system.
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PROJECTS

Phoenix Booking: Cloud-Native Hotel Reservation System | *Group Project | Team Lead | Dec 2025*

Docs: [View report](#) | GitHub: [Phoenix-Hotel-Reservation](#)

- Wrote Terraform configs to provision the full AWS environment: VPC, EC2 nodes across 3 availability zones, security groups, IAM roles, and remote state via S3 and DynamoDB.
- Used Ansible to set up a 5-node Kubernetes cluster with kubeadm, which kept infrastructure costs \$73/month lower than using managed EKS.

Automated CI/CD Pipeline: Cloud-Native Applications

Docs: [View post](#) | Bitbucket: [aws-cicd](#)

- Set up a full AWS CodePipeline workflow with Maven build-time testing, automating the full build and deploy process and cutting out manual steps between code commit and production.

Cloud-Native Re-Architecting: Multi-Tier Web Application

Docs: [View post](#) | GitHub: [AWS-Re-Architecting-Project](#)

- Moved a Java application off self-managed EC2 by switching to RDS, ElastiCache, Amazon MQ, Elastic Beanstalk, and CloudFront, removing the need to manage infrastructure manually.

AWS Lift and Shift: Multi-Tier Web Application Deployment

Docs: [View post](#) | GitHub: [AWS-Lift-and-Shift-project](#)

- Migrated a multi-tier Java application (Tomcat, MySQL, RabbitMQ, Memcached) to AWS EC2, using Bash user data scripts to handle server setup automatically on launch.
- Set up an Application Load Balancer across 3 availability zones with Auto Scaling Groups (1 to 4 instances) and Route 53 private DNS for internal service discovery.

Multi-Tier Web Stack: Local Virtualized Environment Deployment

Docs: [View post](#) | GitHub: [VProfile-Multi-Tier-Web-Stack](#)

- Set up 5 VMs using Vagrant and VirtualBox on a local environment, deploying a full multi-tier stack: Nginx (reverse proxy), Tomcat (app server), RabbitMQ, Memcached, and MySQL.
- Automated inter-service DNS mapping via the Vagrant hostmanager plugin, applied firewalld rules for port-level security, and built and deployed the application artifact using Maven.

DevSecOps Pipeline: Containerized Freights Management System

Docs: [View post](#) | GitHub: [Freights-Management-System](#)

- Built a 7-stage Jenkins pipeline covering build, test, security scan (Trivy), and deploy stages for a 5-service containerized application.
- Used Terraform to provision the AWS environment and Ansible Vault to manage secrets; routing was handled via ALB with TLS termination and CloudWatch for alerts.

COMPETITIONS & ACHIEVEMENTS

- Secured 1st place at HaXtreme 3.0, an inter-university programming competition.
- Awarded 2nd Runner Up at the CodeNight Hackathon.
- Awarded 3rd Runner Up at Red Cypher 2.0, a Capture the Flag (CTF) cybersecurity competition.
- Selected as a Finalist at Bashaway 2025, an inter-university scripting competition.
- Participated in IEEE Xtreme 19.0, a global competitive programming competition.

EXTRACURRICULAR

- FIDE Rated chess player with a 1641 peak classical rating.
- Represented the University of Ruhuna chess team at inter-university level.
- Represented the Engineering Faculty chess team and won the Inter-Faculty Chess Tournament.
- Awarded Best Unrated Player at the Negombo International Chess Tournament.
- Achieved equal 11th place at the Kolonnawa International Chess Tournament.

VOLUNTEERING

- Co-conducted a mathematics seminar for school students at the Mehewara Educational Support Program, organised by the Faculty of Engineering, University of Ruhuna.
- Served as a Delegates Organizing Committee member at CareerXpo 1.0, contributing to event coordination and delegate management.

REFERENCES

Dr. Prabath Weerasinghe (B.Sc., M.Sc., Eng., Ph.D.Eng), Senior Lecturer

Faculty of Engineering, University of Ruhuna

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