# Sandun Sameera

**Phone:** +94 785482303 — **Email:** sandunsameera25@gmail.com — **Website:** sandun.xyz

**LinkedIn:** [profile] — **GitHub:** [profile] — **Credly:** [profile] — **Google Arcade:** [profile]

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## CLOUD DEVOPS ENGINEER

Experienced Cloud DevOps Engineer with 4+ years specializing in AWS infrastructure automation, Kubernetes orchestration, and CI/CD pipeline development. Certified AWS Solutions Architect – Associate, Kubernetes Cloud Native Associate (KCNA), and Certified Kubernetes Application Developer (CKAD). Proven track record in implementing Infrastructure as Code, optimizing cloud costs, and ensuring high availability across production environments. Expert in GitOps workflows, security automation, and scalable cloud-native architectures.

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## WORK EXPERIENCE

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### Yaala Labs (Pvt) Ltd - Colombo, SL — *Feb 2024 - Present*

**Senior Software Engineer in DevOps — DevOps Team**

- **Infrastructure Automation & IaC:** Led AWS environment automation using Terraform, CloudFormation, and Ansible. Streamlined regional account provisioning with end-to-end automation and monitoring integration.
- **Kubernetes Auto Scaling:** Implemented KEDA and Karpenter for dynamic, cost-efficient auto-scaling. Optimized HPA, VPA, and Cluster Autoscaler for optimal resource utilization across diverse workloads.
- **Security & CI/CD Enhancement:** Eliminated bastion instances, implemented OIDC integration with Bitbucket for secure deployment pipelines, and replaced public CI/CD hosts with secure access solutions.
- **Cloud Cost Optimization:** Achieved 15% monthly cost reduction through Savings Plans, Reserved Instances, and EC2 Graviton transitions. Automated anomaly detection using AWS Budget Alerts and Anomaly Detector.
- **Production Migration Leadership:** Successfully managed production migrations for multiple client products, providing strategic DevOps expertise and resolving deployment challenges.
- **Kubernetes Expertise:** Troubleshot production Kubernetes clusters, conducted knowledge-sharing sessions on Kubernetes and Helm best practices for development teams.

### Yaala Labs (Pvt) Ltd - Colombo, SL — *Feb 2022 - Feb 2024*

**Software Engineer, Platform Team**

- **High-Performance System Design:** Engineered "data-cache" component for fintech platform handling 50K records/second with MongoDB persistent storage and Java multithreading.
- **Scalable Architecture:** Implemented fault-tolerant design patterns and failover mechanisms ensuring high availability and system resilience.
- **Code Optimization:** Led refactoring efforts for legacy Java and Node.js components, improving maintainability and reducing technical debt.

### Scicom Lanka (Pvt) Ltd - Colombo, SL — *Apr 2021 - Feb 2022*

**Software Engineer, Backend Team**

- **Microservices Development:** Designed and implemented risk assessment microservice with Excel data processing, MongoDB integration, and robust data pipelines.
- **System Integration:** Integrated biometric hardware (Iris, fingerprint) for enhanced user authentication and risk assessment capabilities.

- **Localization & Platform Development:** Led localization implementation for English/Malay support in online user onboarding platform.

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## CERTIFICATIONS

**Certified Kubernetes Application Developer (CKAD)** - CNCF — *Jun 2025 – Jun 2027*

**Kubernetes and Cloud Native Associate (KCNA)** - CNCF — *Feb 2025 – Dec 2028*

**AWS Certified Solutions Architect – Associate** - Amazon Web Services — *Apr 2024 – Apr 2027*

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## EDUCATION

**BSc. Information Systems** – University of Colombo School of Computing — *2017–2021*
*Second Class Upper Division*

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## TECHNICAL SKILLS

**Cloud & Infrastructure**
AWS (EC2, S3, IAM, EKS, Lambda, CloudWatch)
Terraform, Ansible, CloudFormation
Docker, Kubernetes, Helm
GCP (Basic)

**DevOps & Automation**
CI/CD: GitHub Actions, Jenkins, GitOps
Scripting: Bash, Python
Configuration Management: Ansible, IaC

**Programming & Development**
Java (Spring, Spring Boot), Python
Node.js, JavaScript/TypeScript
MongoDB, MySQL

**Monitoring & Security**
Monitoring: Prometheus, Grafana, CloudWatch
K8s Lens, CloudTrail
Security: OIDC, IAM, Best Practices

**Version Control & Collaboration**
Git, GitHub, Bitbucket

Project Management: Jira, Confluence

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## KEY ACHIEVEMENTS

- **15% Cloud Cost Reduction:** Implemented strategic AWS cost optimization through Reserved Instances and Graviton migration.
- **High-Performance Systems:** Engineered fintech components handling 50K+ records/second with fault tolerance.
- **Security Enhancement:** Eliminated public infrastructure vulnerabilities and implemented secure OIDC-based deployments.
- **Hackathon Winner:** First place at Edu-hack 19 for innovative education platform development.

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## PROJECTS

**Tutetory** – E-learning web application with Angular frontend, Node.js + Firebase backend, and comprehensive authentication systems

**Tourist 2 Townie** – Flutter mobile application with Laravel backend, MySQL database, and Firebase chat integration

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## REFERENCES

**Wathsara Daluwatta**
Doctoral Researcher
RMIT University, Australia
Email: wathsaradaluwatta@gmail.com
Phone: +61433525121

**Nuwan Chathuranga**
Technical Lead
Infor GT Nexus, Sri Lanka
Email: nuwanchathuranga8@gmail.com
Phone: +94716116585