

# SASANKA RANAWAKA

Undergraduate | Aspiring DevOps & System Engineer

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## Summary

Motivated BICT (Hons) undergraduate at the University of Sri Jayewardenepura with strong foundations in system administration, cloud computing, DevOps practices, and networking. Proficient in Linux, Docker, CI/CD pipelines, GitHub Actions, and cloud technologies, with additional exposure to modern software development. Quick learner with solid problem-solving and teamwork skills. Seeking an internship to apply technical abilities, support IT operations, and contribute to scalable, automated solutions in a dynamic ICT environment.

## Area of Expertise

System Administration	Docker & Containerization	Automation & Shell Scripting	Cloud Computing
Network Fundamentals	CI/CD Pipeline Development	DevOps Tools & Practices	Version Control

## Experience

<b>Codeku DevOps Academy</b> Freelance Technical Blogger	May 2025 – Current
• Create and publish technical blogs focused on DevOps technologies, including Docker, Git, CI/CD, Linux, Jenkins and Kubernetes. • Educate and share practical knowledge to help professionals and learners grow in the tech field. • Demonstrate strong communication and technical written skills through consistent content delivery.	

  

<b>University of Sri Jayewardenepura</b> Program & Event team member - Japura CryptX 1.0	Dec 2024 – Feb 2025
• Facilitated team communication using agile practices, reducing task delays by 20% • Coordinated with more than 10 industry professionals to organize CTF and Hackathon events for over 100 participants, achieving high participant satisfaction.	

## Education

<b>Faculty of Technology, University of Sri Jayewardenepura</b> Bachelor of Information and Communication Technology Honors (R)	Jul 2023 – Jan 2027
• 3.81 GPA, Specialization in Network Technology. • Successfully managed a third-year university mini project with tight deadlines. • Member of IEEE Communication Society, Vikings Club, ICTS.	
<b>University of Moratuwa</b> Cisco Certified Network Associate: (200-301 CCNA) (R)	Sep 2025 – Mar 2026
• Accomplished 90% in the ITN module through consistent effort and strong problem-solving skills.	
<b>British Way English Academy</b> Diploma in English	Feb 2022 – Aug 2022
• Earned Merit Pass in Diploma in English through consistent effort and commitment to excellence.	
<b>Mahinda Rajapaksha College, Matara</b> G.C.E Advanced Level Examination in the Engineering Technology Stream.	Jul 2020 – Sep 2022
• Achieved 3 A's (SFT – A, ET – A, ICT – A)	

## Skills

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### Cloud & DevOps:

- AWS, Docker, Kubernetes, Jenkins, GitHub Actions, CI/CD, Nginx

### System Administration:

- Linux, Shell Scripting, User & Permission Management

### Development & Tools:

- Git, GitHub, Python, Java, NodeJS, MySQL

## Projects

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### Jenkins Pipeline with SonarQube, Docker, GitHub Webhooks and AWS

Technologies: Jenkins, Docker, GitHub Webhooks, AWS EC2, SonarQube

#### Key contributions:

- Designed and implemented a fully computerized CI/CD pipeline using Jenkins, reducing manual deployment time by 70%.
- Integrated GitHub Webhooks to trigger pipelines automatically on each code push, improving development workflow efficiency.
- Configured SonarQube for static code analysis, improving code quality and early detection of vulnerabilities.
- Built Docker images and processed containerized deployments on AWS EC2 for consistent and reliable application releases.

Links: [GitHub](#) | [Medium Blog](#)

### MoodMirror Mental Health Monitoring System

Technologies: ReactJS, NodeJS, Tailwind CSS, MongoDB, OpenCV, GitHub

#### Key contributions:

- Successfully collaborated within a 5-member team, managing tasks and deadlines to complete the project within the planned timeline.
- Improved emotion-recognition accuracy by over 75% by integrating multimodal AI techniques using TensorFlow, Keras, and OpenCV.
- Enhanced system performance by reducing detection/response time by approximately 30% through optimized API and model integration.

Links: [GitHub](#)

## References

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