

# KASUN MADHUSHAN

## UNDERGRADUATE

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github.com/KAXUN01  
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### SUMMARY

A dedicated Network Engineering undergraduate with expertise in DevOps, and cloud technologies. Passionate about creating scalable and efficient solutions, eager to contribute technical skills, and gain practical experience through an internship in a dynamic and innovative organization.

### PROFESSIONAL EXPERIENCE

June 2023 - Present

#### Web Developer in New Pacific Systems & Technologies

- Designed and developed websites using platforms like WordPress, Wix and Feacreate achieving a 30% increase in client engagement.

### PROJECTS

10 +

#### CI/CD Pipeline for a Node.js Application

implemented an end-to-end CI/CD pipeline using github actions, reducing deployment time by 60% and improving code quality. Key achievements:

- Automated build, test, and deployment processes with zero-touch deployment strategy.
- Containerized the application using Docker, achieving 40% reduction in environment setup time.
- Implemented automated testing frameworks that caught 95% of issues before production.
- Established monitoring and logging solutions using ELK stack for real-time performance tracking.
- Reduced deployment failures by 75% through automated rollback mechanisms.

#### Deployment of a Highly Available Web Application on AWS

Designed and executed a production-grade cloud infrastructure on AWS, achieving 99.9% uptime. Key implementations:

- Orchestrated infrastructure using Terraform, reducing provisioning time from days to hours.
- Configured auto-scaling groups that automatically handle 200% traffic spikes.
- Implemented blue-green deployment strategy for zero-downtime updates.
- Reduced monthly cloud costs by 30% through resource optimization.

#### Wamhands - A Disaster Management System

- Users can report incidents with details and photos.
- Admin verification of reported incidents.
- Email notifications to users in the affected area after admin confirmation.
- Responsive and user-friendly interface built with MERN stack.

### PRO SKILLS

Github actions | Jenkins  
Bash | Python | Ansible  
Linux | Windows  
AWS | GCP | AZURE  
Docker | Kubernetes  
Prometheus | Grafana

### SOFT SKILLS

Communication skill  
Time management  
Adaptability  
Problem-solving  
Critical thinking  
Teamwork

### EDUCATION

#### BSc in Information and Communication Technology

Specialized in Network Technology  
Faculty of Technology  
University of Jayewardenepura  
Oct 2021 - Present

#### Full Stack Developer Certification

University of Moratuwa  
Oct 2021 - Dec 2022

### REFERENCES

Dr. D.L.Chamara Pramod Liyanage  
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