

KUSHAN DISNAKA KUMARA

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Summary

Computer Engineering undergraduate at the University of Ruhuna with a strong focus on Full-Stack Development and DevOps. Proficient in architecting scalable web and mobile applications using the MERN stack, Spring Boot, C# .NET, and Flutter. Experienced in modern software engineering practices including CI/CD automation with Jenkins and Docker, and cloud infrastructure provisioning with Terraform and AWS. A proactive problem solver and collaborative team player, recognized for excellence in competitive programming. Seeking a software engineering internship to apply full-stack and DevOps skills in a practical industry setting.

Technical Skills

Web & Backend: React.js, Express.js, Spring Boot, Node.js, REST API Design, C# (.NET / WPF), JavaScript, Tailwind CSS

DevOps & Cloud: Docker, Docker Compose, Jenkins, GitHub Actions, Terraform, AWS, Git, Linux, Nginx

Databases: MongoDB, MySQL

Mobile Development: Flutter

Programming Languages: C, C++, Python, JavaScript, Java, C#

Engineering Practices: CI/CD Pipelines, Agile, Version Control, System Design, Code Review

AI & Machine Learning: Python, Scikit-learn, NumPy, Pandas, Data Preprocessing, Model Evaluation

Hardware & Embedded: Verilog HDL, ESP32, Arduino, Analog & Digital Electronics, Control System Design, PID Tuning

Education

University of Ruhuna

2023 – Present

BSc Engineering (Hons) in Computer Engineering | OGPA: 3.56 / 4.00

Sri Lanka

MR/Siddhartha College, Weligama

2020 – 2022

GCE Advanced Level – Combined Maths: A Chemistry: A Physics: B

Weligama, Sri Lanka

Relevant Coursework

- Data Structures & Algorithms
- Software Engineering
- Database Management
- Artificial Intelligence
- Embedded Systems
- DevOps Engineering
- Machine Learning
- Control Systems

Projects

Inventory Management System | *MERN, Docker, Jenkins, Terraform, AWS* **2024**

- Built a comprehensive full-stack inventory tracking system with a production-ready DevOps lifecycle.
- Integrated automated CI/CD pipelines using Jenkins and Docker, ensuring reliable deployment and scalability.
- github.com/kushandisnaka/devops_inventory_management_system

NeoBanker – Web & Desktop Banking Simulator | *React, C#, .NET, WPF* **2024**

- Developed a dual-platform banking simulator supporting secure transfers and bill payments.
- Built a React web interface for end users and a cross-functional administrative desktop client using WPF and the .NET framework.
- github.com/kushandisnaka/Bank-simulator

Post Graduate LMS – University of Ruhuna | *MERN, Image Processing* **2024**

- Collaborated in a group to develop a Learning Management System for postgraduate students.
- Integrated image processing capabilities for document verification and academic content management.
- github.com/Geesara-Abenayaka/Software-Group-Project

MediCare – Online Pharmacy Platform | *MERN Stack* **2024**

- Built an end-to-end pharmaceutical e-commerce solution with secure prescription upload and medication browsing.
- Developed an administrative dashboard providing full CRUD functionality for inventory and order management.
- github.com/kushandisnaka/Online-Pharmacy

FreeCycle Corner | *Flutter, Mobile Development – Group Project* **2024**

- Built a sustainable community mobile app enabling graduating students to pass on educational materials and household items to juniors, facilitating a circular economy within the university.
- github.com/Hasmitha0110/FreeCycle_Corner

Wheeled Bipedal Robot (WBRX) | *ESP32, Python, PID Control – Group Project* **2025**

- Developed a self-balancing two-wheel robot using an ESP32 and MPU6050 IMU.
- Implemented PID control algorithms and sensor fusion to achieve real-time dynamic stability and smooth motion control.

- Developed a theatre seat booking CLI system using linked lists, dynamic arrays, and sorting algorithms for efficient seat reservation management.
- github.com/ranvidu1130/DSA-ticket-booking-sem-3

Achievements

Ranked 1st – Code Night 2025, University of Ruhuna

References

Dr. Prabath Weerasinghe

Senior Lecturer, Faculty of Engineering, University of Ruhuna

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