

Udari Moksha Perera

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About Me

- I am an undergraduate student at the Faculty of Engineering, University of Ruhuna, specializing in Computer Engineering. Through academic coursework and hands on university projects, I am developing strong fundamentals in full-stack development, database systems, software testing, and computer networking. I am seeking opportunities to expand my practical experience and contribute to real world engineering challenges.

Education

University of Ruhuna, BSc Engineering (Hons) in Computer Engineering 2023 – Present

- **Coursework:** Data Structures and Algorithms, GUI Programming, Signals and Systems, Advanced Data Structures and Algorithms, Computer Architecture and Operating System, Database Systems, Digital Logic Design, Software Engineering Principles, Software Testing and Quality Assurance, Web Application Development, Object Oriented Design Patterns and Principles

Esoft Metro Campus, Diploma in IT 2023

- **Coursework:** Information Technology Concepts, Computer Hardware, Network Technology, Internet, Email & Web Design, Graphics and Multimedia, Software Engineering, Programming with Python, Databases with SQL, Programming with C++

Vibernet Academy, CCNA Certification (Ongoing) 2025 – Present

- **Coursework:** Networking Fundamentals, LAN Switching Technologies, Routing Technologies, WAN Technologies, IP Addressing, Network Security, Network Troubleshooting

Skills

- **Languages:** C, C++, JavaScript, Java
- **Frameworks & Tools:** MERN Stack (MongoDB, Express.js, React.js, Node.js), MySQL, Jenkins, SonarQube
- **Testing & DevOps:** JUnit, Selenium, REST-Assured, Postman, GitHub Actions
- **Other:** Operating Systems, Networking, Database Design
- **Soft Skills:** Leadership, Teamwork, Communication

Projects

Traffic Law Violation Monitoring System Ongoing

- MERN-based platform for managing and reporting traffic law violations.
- Tools/Technologies: MongoDB, Express.js, React.js, Node.js, REST API

Real-Time Chat Application 2025

- Real-time messaging system with Socket.IO and user authentication.
- Tools/Technologies: MERN Stack, Socket.IO, JWT Authentication

Doctor Appointment Management System 2025

- Full-stack web application for booking and managing medical appointments.
- Tools/Technologies: React.js, Node.js, MongoDB, Express.js

Airline Management System 2025

- Relational database for airline operations, including query tuning and NoSQL integration.
- Tools/Technologies: MySQL, MongoDB, SQL Query Optimization

Software QA & Testing 2025

- Automated testing pipeline integrated with CI/CD and SonarQube.
- Tools/Technologies: JUnit, Selenium, REST-Assured, GitHub Actions

Technical Learning & Activities

- **HDL (VHDL, Verilog) for FPGA Design:** Learning digital circuit design and simulation using EDA Playground, focusing on HDL fundamentals, testbenches, and FPGA architecture concepts.
- **DevOps:** Exploring CI/CD pipelines, GitHub Actions, Jenkins, and automated testing integration.
- **Mobile App Development:** Self-learning Flutter and React Native to build cross-platform mobile applications.
- **Networking:** Studying TCP/IP, routing, switching, and practical configuration using Cisco Packet Tracer.
- **Software Database Skills:** Improving database design, SQL queries, MongoDB integration, and web application development.
- **Programming Practice:** Enhancing proficiency in C, C++, Java, JavaScript, and Python through projects and exercises.

Extracurricular Activities

- Inter University Badminton Participant
- IEEE IAS Executive Committee Editor
- REF Media Committee Member
- IEEE Volunteer of the Month (Jun 2024)
- Career Expo 1.0 Public and Design Team Member
- Eminence 4.0 Programming Team Member

Awards

- Best Affinity Group Project – IEEE Eminence Competition

References

Dr. Rajitha Udawalpola
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