

Janindu Dewmith

ELECTRICAL AND INFORMATION ENGINEERING UNDERGRADUATE

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in Janindu Dewmith

Summary

Enthusiastic engineering undergraduate with a strong interest in networking and cybersecurity, driven by a deep curiosity to explore, learn and apply emerging technologies for real-world impact. Committed to continuous improvement through hands-on experience, teamwork and research, with a passion for developing sustainable and innovative solutions that enhance quality of life. Motivated to grow into a globally competent professional dedicated to addressing modern challenges through engineering excellence and technological advancement.

Education

B.Sc. Engineering (Undergraduate), Specialized in Electrical and Information Engineering 2022 – Present
Faculty of Engineering, University of Ruhuna OGPA: 3.92 / 4.00

Comprehensive Master Java Developer (CMJD) 2022
Institute of Java and Software Engineering (IJSE)

G.C.E. Advanced Level 2020
Siridhamma College Combined Maths – A, Physics – A, Chemistry – B

Projects

1. [Healthcare Appointment Booking System](#) | 🐙 Repo

- Developed a full-stack web platform to streamline online doctor appointment scheduling for patients, doctors and administrators.
- Implemented role-based portals for patients, doctors and admins using MERN stack with secure JWT authentication and image upload support.
- **Technologies:** React.js, Node.js, Express.js, MongoDB, Tailwind CSS, JWT, Multer, Cloudinary, Axios

2. [Online Voucher Application Portal \(Ongoing Project\)](#) | 🐙 Repo

- Designing a full-stack payment request management system for the Faculty of Engineering, University of Ruhuna to streamline academic staff related reimbursements and approvals.
- Implemented multi-form submission, approval hierarchy and real-time status tracking with Clerk-based secure authentication.
- **Technologies:** React.js, Node.js, Express.js, MongoDB, Clerk, Tailwind CSS, Axios

3. [Smart Kitchen Monitoring System](#) | 🐙 Repo

- Developed an IoT-based system to monitor kitchen environment parameters like temperature, humidity and gas levels for safety.
- Integrated real-time alerts with buzzer and relay control, local OLED display and web-based dashboards via ESP-Dash and ThingsBoard.
- **Technologies:** ESP32, MQTT, ThingsBoard, ESP-Dash, Arduino IDE

4. [Offensive & Defensive WiFi/Bluetooth PEN Tool \(Ongoing Project\)](#)

- Designing a secure, portable Wi-Fi/Bluetooth penetration testing device using ESP32 for real-time offensive and defensive network assessment in high-noise environments.
- Implements features such as Wi-Fi scanning, Bluetooth device discovery, rogue AP simulation, SSID flooding, packet sniffing with PCAP logging, evil portal and TFT touchscreen-based UI.
- **Technologies:** ESP32, Arduino IDE, TFT Touchscreen, WiFi/Bluetooth Protocols, Embedded C++

5. **Console-based Financial Trading Journal Application** | Repo

- Implemented a console-based application for tracking and managing trading activities using linked lists and efficient sorting algorithms.
- Designed to improve understanding of dynamic data structures and algorithm optimization as part of the Data Structures and Algorithms module.
- **Technologies:** C++, Data Structures, Sorting Algorithms

6. **Cargo Management System: SQL Database** | Repo

- Designed and developed a relational database system in MySQL featuring 10 interconnected entities to manage cargo logistics and operations efficiently.
- Implemented complex queries and optimized schema design as part of the Database Systems module to support real-world cargo management requirements.
- **Technologies:** MySQL

Skills and Competencies

- **Programming Languages:** Java, C, C++, Python, JavaScript, SQL
- **Web Technologies:** HTML, CSS, JavaScript, MERN Stack, ASP.NET Core MVC
- **Software & Tools:** MATLAB, Proteus, MySQL, Git, JIRA, MS Office Suite
- **Languages:** Fluent in English (oral and written); Native Sinhala

Licenses and Certifications

- Comprehensive Master Java Developer (CMJD): Institute of Java and Software Engineering (IJSE)
- The Bits and Bytes of Computer Networking: Google (Coursera)
- Foundations of Cybersecurity: Google (Coursera)
- Play It Safe: Manage Security Risks: Google (Coursera)
- Digital Signal Processing 1: Basic Concepts and Algorithms: EPFL (Coursera)
- Introduction to Cybersecurity: Cisco Networking Academy
- Foundations of Project Management: Faculty of Engineering, University of Moratuwa
- Python for Beginners: Faculty of Engineering, University of Moratuwa
- SOC Member: LetsDefend
- Network Cable: LetsDefend
- Complete Solar Energy Design Course From Zero To Hero: Udemy

Personal Skills

- Critical Thinking, Analytical Reasoning, Problem Solving
- Time Management, Leadership, Teamwork
- Oral and Written Communication, Planning and Organizing

References

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