SACHINI DISANAYAKA

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PROFILE

A highly motivated third-year Computer Engineering undergraduate at the University of Ruhuna, passionate about solving complex problems and delivering innovative software solutions. Skilled in Machine Learning (ML), MERN stack, Software Development, DevOps, Networking, and Web Development. Adept at adapting to new technologies and thriving in collaborative, fast-paced environments.

SKILLS

- Programming Languages: C, C++, Java, Python
- Back-end development: Node.js, Express.js
- Front-end development: React, Tailwind CSS
- Databases: MYSQL, MongoDB
- Mobile development: Flutter
- Data Structure and Algorithms
- Tools and Technologies: Git, GitHub, Jira, Figma, Agile development, CI/CD, Docker

EDUCATION

BSc (Hons) in Computer Engineering – University of Ruhuna   2022-2026

Ordinary Level and Advanced Level - Badulla Central College   2010-2018

PROJECTS

1. **Institute Management System (2024-present)**

- MERN stack-based platform for admin CRUD operations, secure logins, timetable & attendance tracking, online payments, barcode integration, and announcements.

Skills**: React, MongoDB, Node.js, Express.js**

2. **Credit Card Fraud Detection System (2024)**

- Developed a Machine Learning model to detect fraudulent transactions using an imbalanced dataset.
- Preprocessed data, engineered features, and trained LR & RF models.

Skills: **Python, Scikit-learn, Pandas, NumPy**

3. **Pet Adoption Web Application (2024)**

- Designed & developed a MERN stack-based pet adoption platform with APIs for adding, displaying, updating pets, managing wish lists, and user authentication with an admin panel for pet management

Skills**: React, Node.js, Express.js, MongoDB**

4. Online Clothing Store Mobile Application (2024)

- Developed a Flutter-based e-commerce app for seamless online shopping.
- Features: Real-time stock updates, secure checkout, product catalog

Skills: **Flutter, Firebase**

5. Password Management System (2023)

- C++-based system with Hash Tables for secure storage, Linked Lists for history tracking, Caesar Cipher encryption & password validation.

Skills: **C++, Data Structures**

6. File Sharing Application using Socket Programming (JAVA) (2025)

- Developed a GUI-based file transfer program with Java Sockets and Swing, using multi-threading for concurrent transfers.
- Enabled file sending, downloading, and preview before download between client and server

Skills: **Java, Java Swing, Socket Programming**

WORK EXPERIENCE

Trainee - Bank of Ceylon Passara (2021)

ACHIEVEMENTS

Champions – Team **"MINT Sparks"** (Eminence 4.0, IEEE WIE) (2024)

VOLUNTEERING

Delegate Team Member – Zero Plastic Award Ceremony, university of Ruhuna

PD Team Member – Career Fair 2025, University of Ruhuna

REFERENCES

Dr. Rajitha Udawalpola	**Dr. Nadeesha Sandamali**
Department Head (Electrical & Information Eng.)	Senior Lecturer (Electrical & Information Eng.)
Faculty of Engineering,	Faculty of Engineering,
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