

VINURA DE SILVA

IT Graduate

Ganemulla, Sri Lanka

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[Portfolio](#)

[LinkedIn](#)

PROFILE SUMMARY

Enthusiastic and detail-oriented Software Engineer with a BSc (Hons) in Information Technology from SLIIT. Experienced in full-stack development using MERN, NestJS, Java, and scalable backend APIs. Demonstrated ability in building responsive UI components with TypeScript, TailwindCSS, and Shadcn. Strong understanding of REST APIs, IoT systems, and machine learning integration. Published researcher and passionate about clean, efficient, and scalable code.

PROFESSIONAL EXPERIENCE

Software Engineer Intern | Parallax Technologies

2024 July - Present

- Developed scalable backend APIs with NestJS and ExpressJS
- Built dynamic, responsive UIs using React, TypeScript, TailwindCSS, and Shadcn
- Integrated PayPal payment gateway for secure online transactions
- Created map-based features using the Google Maps API

Summer Intern | Rizing Sri Lanka

2024 July

- Gained exposure to enterprise software development and SAP technologies
- Participated in workshops and observed project lifecycles and consultant workflows
- Learned IT industry best practices and corporate workplace culture

EDUCATION

Sri Lanka Institute of Information Technology (SLIIT)

2021 - 2024

Graduated: March 2025

- BSc (Hons) in Information Technology Specialized in Information Technology

D.S. Senanayake College (Colombo 07)

2006 - 2019

PROJECTS

Emission Monitoring System (IoT + Web Dashboard) – Research Project

Technologies: Flask, React, Firebase, ML

- Built a real-time air pollution monitoring system with IoT sensors
- Developed backend with Flask, storing and processing data in Firebase
- Built dashboard with React/TypeScript for data visualization and alerts
- Implemented ML-based anomaly detection for pollution threshold alerts

Hotel Management System

- Developed end-to-end system using MERN stack
- Included room management, bookings, and user dashboard
- Designed with responsive UI and clean modular structure

[Repository link](#)

Renewable Energy Web Application

- Created a MERN-based platform to promote sustainable energy practices
- Focused on educating users through interactive visuals and resources

[Repository link](#)

RESEARCH AND PUBLICATIONS

Scalable IoT Solutions for Real-time Monitoring and Mitigation of Industrial Air Pollution

Published at ICCA 2024 – Cairo, Egypt (Nov 2024)

- Focused on an IoT and ML-based framework to detect particulate emissions
- Integrated real-time alerts and compliance monitoring for industrial use

[Publication link](#)

TECHNICAL SKILLS

- Languages: JavaScript, TypeScript, Java, C, C++, SQL
- Web Development: React.js, Node.js, Express.js, NestJS
- Databases: MongoDB, MySQL, Firebase, PostgreSQL
- Tools & Others: Git, Postman, Google Maps API, Docker (basic), REST APIs, Agile, CI/CD (basic)
- Frameworks & Libraries: TailwindCSS, Shadcn, Material UI
- IoT/ML: Python (Flask), Firebase, ML-based anomaly detection

LANGUAGES

- English (Proficient)
- Sinhala (Native)

NON-RELATED REFEREES

Mr. Prasanna S. Haddela

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