

Nipun Bandara

3rd Year Undergraduate

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🌐 Portfolio | 💬 LinkedIn | 🛡 Github



Profile

A 3rd-year IT undergraduate with hands-on experience in web development, machine learning, and AI who is passionate about building efficient, scalable applications that deliver real-world impact and eager to work on a team as a **Software Engineering intern** to gain experience across the full lifecycle of web development.

Education

University of Moratuwa B.Sc. (Hons) in Information Technology

2023 – PRESENT

- CGPA: 3.56 (Up to semester 4)

Bandaranayake College Gampaha GCE Advanced Level - Physical Science Stream

2019 – 2021

- Combined Mathematics (A), Physics (B), Chemistry (A), Z-score: 1.9577

Projects

Employee Management System (2024 – 2025)

Links: Web App, Frontend, Backend

- A web app for user submissions (leaves, timesheets, etc.) with an admin portal for managing users and their submissions, projects, and approvals.
- **Role:** Worked as a full-stack engineer developing the admin portal and handled theming, layout, form submission, and deployment.
- **Technologies:** NextJS, Spring Boot, PostgreSQL, MUI, Formik, Yup, Axios, Docker, Vercel, Render

Skill Forge Web App - Idealize 2025

Links: Web app, Github

- A skill-exchange web app enabling students to connect as learners and teachers through a barter-style system.
- **Role:** Led the team and worked as a full-stack engineer, developing course modules and handling layout and theming.
- **Technologies:** NextJS, MongoDB, MUI, Vercel

Auto Care Pro Web App (2025)

Links: Frontend, Backend

- An Automobile Service Management System for customers to book appointments and track service progress, with an employee portal for logging time, tracking tasks, and monitoring workloads.
- **Role:** Worked as a full-stack developer implementing authentication, authorization, and user management modules.
- **Technologies:** ReactJS, Spring Boot, PostgreSQL, MUI, Formik, Yup, Axios

Expense Tracker Web App (2025)

Link: Github

- A personal web application for effective financial management and expense tracking.
- **Role:** Built the full-stack application, implementing user auth, income/expense logging, balance display, and 30-day chart analytics.
- **Technologies:** React, ExpressJS, Tailwind CSS, MongoDB

Respire Pro DIY Smart Ventilator (2024)

Links: Code

- A low-cost ventilator with SpO2, temperature, humidity, and pressure monitoring, plus adjustable breath rate and volume.
- **Role:** Designed the power distribution system and programmed the Arduino Uno to regulate breath volume and

BPM by controlling a servo motor.

- **Hardware:** Arduino Uno, ESP32, DHT11, MAX30101, MPX10DP

Experience

Combine Maths Paper Instructor Susipvan Higher Education (Private) Limited

2023 Sep – 2024 Feb

- Worked as a part-time Combined Mathematics instructor at Susipvan Higher Education after finishing A/Ls.

Volunteer Fit Future Careers (INTECS)

2024

- Worked as a committee member and helped during the Fit Future Careers event organized by INTECS.

Competitions

- **Finalists** - Devthon 2.0 (2025) - App Development
- **Semi-Finalists** - Idealized (2025) - App Development and Datathon
- **Beginner Tier Finalists** - CodeRally 6.0 (2025) - Hackathon
- **Finalists** - Innovatex University Edition (2025) - Algorithm-based coding and Web development
- **Participant** — HackElite 2025 - Web development
- **Participant** - OctWave 2.0 (2025) - Datathon
- **Participant** - Data Strom 6.0 (2025) - Datathon
- **Participant** - CodeQuest: Vault Edition (2025) – CTF Hackathon
- **Participant** - SpiritX 2025 – Ideathon
- **Participant** - Innovate with Ballerina (2024, 2025) – Web development

Certifications

- **Software Engineer Intern** - HackerRank
- **Postman API Fundamentals Student Expert** - Postman
- For a complete list of certifications, please visit my LinkedIn profile.

Technologies

- **Programming Languages:** JavaScript, Java, Python, C, C#
- **Frontend Development:** React, NextJS, VueJS, Tailwind, Bootstrap, Material UI
- **Backend Development:** ExpressJS, Java Spring Boot, NextJS, NodeJS
- **Mobile Development:** React native
- **Databases:** MySQL, MongoDB, PostgreSQL
- **Machine Learning:** Scikit-learn, XGBoost, LightGBM, Matplotlib, NumPy, Seaborn, Pandas
- **DevOps & Hosting:** Docker, Kubernetes, Vercel, Render
- **Tools & Other:** Git, Figma, Canva, Jira, Postman, Windows, Ubuntu

Interests

Software engineering, web application development, data science, and artificial intelligence, with a particular enthusiasm for building impactful, user-centered, and data-driven solutions.

References

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