

# DEWNA UDATHTHAPOLA

ASPIRING SOFTWARE ENGINEER INTERN



Github

**Address:** 185/G, Dewala Road, Thalangama South, Battaramulla

**Phone:** 0718814764 / 0707747333

**Email:** dewnaudaththapola@gmail.com

**Website:** [www.dewna.me](http://www.dewna.me)

## SUMMARY

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Motivated and versatile Information Technology undergraduate with hands-on experience in web application development, software testing, and DevOps practices. Proficient in both manual and automated testing methodologies, with strong programming skills across multiple languages and frameworks. Demonstrates a keen eye for detail, strong analytical thinking, and a proactive approach to problem-solving. Experienced in agile development environments and CI/CD workflows, with a passion for improving software quality, performance, and reliability. Eager to contribute to high-impact projects as a QA, SE, or DevOps intern while continuously learning from industry experts.

## PROJECTS

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- **AI Weather Forecast Based Solar energy prediction system – Full Stack Developer / Project Manager**

- Built a Node.js/Express + MongoDB backend with JWT auth for per-user solar data CRUD
- Integrated OpenWeather API to compute next-day energy forecasts by time segment
- Developed a React + MUI frontend with voice-enabled setup, dashboard, and CSV/PDF export
- Added an Azure OpenAI-powered chatbot for personalized solar performance insights

**Technologies:** Node.js · Express · MongoDB · React · Material-UI · JWT · OpenWeather API · Azure OpenAI · jsPDF

link: <https://github.com/dewna-u/solar-nexus>

**Nov 2024**

- **Online Restaurant Management System Web App (Group Project) - Full Stack Developer**

- Engineered the inventory management module of a MERN-based restaurant system to track stock levels, ingredients, and supply usage in real-time.
- Built secure RESTful APIs using Express and MongoDB to manage inventory operations and ensure data integrity.
- Developed a responsive React frontend for live stock updates and alerts, enhancing kitchen efficiency and reducing waste.
- Integrated jsPDF for generating downloadable inventory reports with structured data summaries.
- **Technologies:** MERN Stack (MongoDB, Express, React, Node.js), Bootstrap, Postman, jsPDF

Link: <https://github.com/dewna-u/Restaurant-Management-System-Full-Project>

**Jan 2024**

- **Online Event Planning System Group Project - Full Stack Developer**

- Designed and developed the event management module allowing users to create, view, and organize events with real-time updates.
- Implemented MERN-based backend services to handle event scheduling, category tagging, and participant tracking.
- Created a responsive React interface for managing event listings, with dynamic UI components for filtering and viewing event details.
- Enabled PDF export of event summaries using jsPDF for easy sharing and documentation.
- **Technologies:** MongoDB · Express.js · React · Node.js · jsPDF

- **Online Vehicle Rental System (Group Project) - Full Stack Developer / Project Management**

Nov 2023

• Built modules for booking, vehicle availability, and rental history using HTML, CSS, PHP, JS.

• **Technologies: HTML, CSS, PHP, JS**

• link: <https://github.com/dewna-u/Budget-Vehicle-Dealers>
- **Daily Planner Pro (TODO) – Full Stack Developer**

Nov 2024

• Developed a user-friendly productivity application for daily task management with features to create, edit, and delete tasks.

• Implemented reminder functionality to help users stay on track and organized throughout the day.

• Designed an intuitive and responsive interface focused on time management and ease of use, ideal for everyday productivity.

• **Technologies: Kotlin**

link: <https://github.com/dewna-u/DailyPlannerPro>

• **Smart Home Control**

• Implemented real-time toggling of connected devices with interactive UI elements and smooth user feedback.

• Designed the layout using XML with responsive design principles and integrated hardware control logic via Java-based Android services.

• Focused on non-CRUD interactions for real-world IoT simulation without persistent storage.

• **Technologies: Android Studio · Java · XML · Bluetooth API · Material Design**
- EDUCATION QUALIFICATIONS
- |  |                                   |
|--|-----------------------------------|
| SLIIT   Sri Lanka Institute of Information Technology<br>(Undergraduate)                 | Nov 2022 - Present                |
| <div>• BSc (Hons) in Information Technology Specialising in Information Technology</div> |                                   |
| Canadian A/L   2021 - 2022   | 2021 - Ordinary Level (Cambridge) |
| <div>•   Combined Maths C , Physics S, Chemistry S</div>                                 | <div>• 2B 3C 1D Passes</div>      |
- AREAS OF EXPERTISE
- |  |   |
|--|---|
| <div>Languages</div> <div><div>• Javascript   Java   PHP   C   C++</div><div>• Typescript   Kotlin</div></div>                                     | <div>Database Technologies</div> <div>• MYSQL   Workbench   Mongo DB   SQL   Firebase</div>   |
| <div>Framework</div> <div><div>• React   Node JS   Express / Axios   Selenium</div><div>• Bootstrap   Tailwind</div><div>• Spring Boot</div></div> | <div>IDEs Familiar with</div> <div><div>• VS Code</div><div>• IntelliJ IDEA</div><div>• Eclipse</div><div>• Dev C++</div><div>• Visual Studio</div><div>• Android Studio</div><div>• Selenium IDE</div></div> |
- SOFTSKILLS
- Good presentation Skills

• Leadership Skills

• Excellent problem solver

• Time management Skills
- Dewna Udatthapola @ 2025