



# Mithila Madhusankha

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**Portfolio:** [NKDMMadhusankha](#)

**GitHub:** [NKDMMadhusankha](#)

## SUMMARY

Results-driven Software Engineer with a strong focus on delivering high-quality, user-centric solutions. Adept at bridging the gap between development and design, with a keen interest in user experience and interface usability. Skilled in contributing to all phases of the software development lifecycle, with a commitment to writing clean, maintainable code and building scalable systems. Known for a collaborative mindset, attention to detail, and a continuous drive for learning and improvement. Seeking opportunities to contribute to impactful projects within dynamic and forward-thinking teams.

## PROJECTS

### HarmoniX – AI-Powered Music Collaboration Platform (final year project)

- Technologies: React.js, Node.js, Express.js, MongoDB, Python, Machine Learning, AWS S3, Material UI
- Developed a web platform connecting artists, producers, engineers, and studios. Features an AI-powered recommendation system using LLMs to match clients with professionals based on project descriptions. Built with React, Node.js, Express, and MongoDB, with a Python microservice for NLP. Includes secure auth, portfolio previews, AWS S3 image uploads, studio bookings, and email notifications.

### Furniture Visualization Desktop App (Group)

- Technologies: React, React Three Fiber, JavaScript, 3D Modeling
- Developed a desktop application for in-store designers that enables real-time, interactive visualization of furniture within virtual room environments. Leveraged 3D models with accurate scaling and textures to help customers preview furniture styles and layouts, improving decision-making and enhancing the retail experience.

### BookNest – Full-Stack Library Management System (Group)

- Technologies: React, Node.js, Express, MongoDB Atlas, JWT, AWS S3, WebSocket, Docker
- Built a role-based system with separate portals for admins, librarians, and users. Features include book reservations, damage reports, real-time announcements (WebSocket), secure authentication, AWS S3 image storage, and CI/CD for automated testing and deployment.

### Green Supermarket – Java-Based E-commerce Platform (Group)

- Technologies: Java Swing, JSP, Servlets, MySQL, PayPal API
- Developed a web-based system with online shopping, secure payments (PayPal API), user accounts, and cart checkout. Included SMS/email notifications and admin/customer interfaces using Java Swing and JSP.

**See more of my work at:** [Github](#)

## EDUCATION

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### BSc (Hons) in Software Engineering – Second Class Honours (Upper Division)

2022 - 2025

- NSBM Green University in affiliate with Plymouth University

### GCE Advanced Level in Commerce

2021

- Prince Of Wales' College, Moratuwa

### Diploma in English Language

2019

- British Way English Academy

## ADDITIONAL INFORMATION

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### • Technical Skills:

- **Programming Languages:** Python, JavaScript, TypeScript, C, C#, PHP
- **Frontend Development:** HTML, CSS, React, Angular, Flutter
- **Backend & Databases:** Node.js, Express.js, Flask, MySQL, MongoDB (MERN Stack)
- **Machine Learning & Data Science:** TensorFlow, Scikit-learn, Pandas
- **Tools & Platforms:** Git, Firebase, RESTful APIs, AWS S3, Postman

**Soft Skills:** Effective communication, problem-solving, adaptability, time management, teamwork and collaboration, creativity and innovation, attention to detail, self-motivation and initiative.

**Extra Curricula:** Senior Prefect at Weera Puran Appu Vidyalaya (2018), Member of the school Karate Team, All-Island Winner in school music competitions. A passionate and versatile musician with strong vocal, composition, and audio production skills, actively involved in both solo and collaborative music projects.

### References:

Ms Hirushi Dilpriya Lecturer (Supervisor)

Faculty of Computing

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Prabhath Darshana

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