Mithila Madhusankha (Undergraduate)

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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 full-stack web platform (HarmoniX) to facilitate seamless collaboration between artists, music producers, audio engineers, and recording studios. The platform features an AI-driven recommendation system powered by Large Language Models (LLMs), enabling clients to describe their music projects in natural language and receive personalized matches based on genre, mood, and style. Built with React, Node.js, Express, and MongoDB, the system integrates a Python microservice to handle AI and NLP functionalities. HarmoniX also supports secure authentication, portfolio management with audio previews, real-time image uploads via AWS S3, studio booking capabilities, and automated email notifications, providing a modern and efficient solution tailored to the needs of the music industry.

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
- Designed and developed a role-based library platform with dedicated portals for admins, librarians, and users. Key features include book reservations, damaged book reporting, real-time announcements via WebSocket, and secure authentication. Integrated AWS S3 for efficient image storage and implemented automated testing with CI/CD pipelines for reliable, scalable deployment.

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

- Technologies: Java Swing, JSP, Servlets, MySQL, PayPal API
- Built a full-featured supermarket platform enabling online shopping, secure payments, and user account management. Integrated PayPal API for real-time transactions and added SMS/email notifications, product categories, and cart checkout functionality. Designed intuitive interfaces for both customers and admins using Java Swing and JSP to ensure a seamless user experience.

See more of my work at: Github

EDUCATION

BSc (Hons) - Software Engineering   **2022 - 2025**
NSBM Green University in affiliate with Plymouth University

- Major in Fullstack, Software developing, Machine Learning

GCE Ordinary Level   **2018**
Weera Puran Appu Vidyalaya, Moratuwa

- Successfully completed with A, B, C grades

GCE Advanced Level in Commerce/Business with Econ Stream   **2021**
Prince Of Wales' College, Moratuwa

- Successfully completed Accounting (S) and Business Studies (BS), earning C grades in both.

Diploma in English Language   **2019**
- British Way English Academy

ADDITIONAL INFORMATION

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

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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