



MATHEESHA DISSANAYAKE

SOFTWARE ENGINEER

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PROFILE

A results-oriented Software Engineer with a First Class BSc (Hons) in Software Engineering and hands-on experience in full-stack development. Proficient in React, Next.js, and MERN stack, with a passion for building efficient and user-friendly web and mobile applications. Eager to contribute to a challenging software development role where I can leverage my skills in AI and augmented reality to create innovative solutions

EXPERIENCES

2025 Jan - Jun AIR Studios Co.
Associate Software Engineer

Integrated Role-Based Feedback System for the NEIC Website

This system enables the collection and management of user feedback directly through the NEIC website. It is designed to differentiate feedback based on user roles, providing more targeted insights.

Key Features for Administrators:

- *Centralized Dashboard:* A secure admin panel to view all submitted feedback in one place.
- *Advanced Filtering:* Powerful options to sort and filter feedback by date range, user role, feedback category, and other criteria.
- *Reporting & Printing:* Easily generate print-friendly reports from filtered data for analysis, record-keeping, or meetings.

2024 July - Dec AIR Studios Co.
Intern Software Engineer

- *Developed and maintained full-stack web applications using the MERN stack.*
- *Learned and developed mobile applications using Expo, React Native, Tailwind CSS, and MongoDB.*
- *Proactively learned and applied Three.js and AR implementation for web-based projects upon joining the team.*
- *Identified and resolved software defects and bugs in various projects, notably improving the stability of the NEIC website.*
- *Designing and implementing 3D interactive elements using Three.js.*
- *Collaborating with the team to enhance user interfaces and improve application performance.*
- *Conducting testing and debugging to ensure high-quality deliverables.*

EDUCATION

University of Bedfordshire

BSc (Hons) Software Engineering, **First Class** | University of Bedfordshire | 2024 - 2025

Higher National Diploma (HND) in Software Engineering | **SLIIT City Uni** | 2023 - 2024

St' Anthony's College Kandy

2007 - 2020

SKILLS

- Fast Learning
- Creative Thinking
- Problem Solving
- Team Working
- Learn Quickly

TECHNICAL SKILLS

- **Frontend:** React, Next.js, Three.js, GSAP, Framer Motion, Tailwind CSS
- **Backend:** Node.js, Express.js (from MERN), ConvexDB, Java Springboot
- **Databases:** MongoDB (from MERN), Neon (PostgreSQL), Firebase, ConvexDB, MySQL
- **AI/ML:** TensorFlow, PyTorch, OpenAI API, Vercel AI SDK
- **Tools & Platforms:** Git, GitHub, Vercel, Firebase, WebXR, Algolia Search, AWS
- **Methodologies:** Agile
- **Others:** CI/CD, Testing, Unit Tests

PROJECTS

Personal Portfolio Website – You can view all the projects I've worked on through this website

www.matheesha-dissanayake.me

Skills - React(Vite), Three js, GSAP

Final Year Research Project: AI-Powered AR Furniture Platform

- **Project Context:** This application was developed as my final year research project for my BSc (Hons) in Software Engineering, demonstrating the practical application of AI and AR in e-commerce.
- **Problem Solved:** The platform addresses key online shopping challenges. It allows users to visualize furniture in their own space using AR and offers intelligent product recommendations by analyzing images of their room.
- **Key Features:**
 - **AI Recommendation Engine:** Developed a feature using **TensorFlow** where users can upload an image of their space to receive AI-driven furniture recommendations that match their style.
 - **AR Visualization:** Built a real-time AR viewer with **Three.js** and **WebXR**, allowing customers to place 3D furniture models in their environment.
 - **24/7 AI Assistant:** Implemented an AI chatbot using **PyTorch** to provide instant customer support and answer product inquiries around the clock.
 - **Full E-commerce Functionality:** Engineered as a complete **MERN stack** application with the **Stripe Payment Gateway** integrated for secure transactions.
- **Skills:** Three.js, MERN, Agile, Tensorflow, PyTorch, WebXR, Stripe Payment Gateway
- **Link:** <https://furni-online.vercel.app/>

Camera Rent E-Commerce NEXT js Website with Admin Panel

Skills - Next js, Firebase, Framer motion, Algolia search

<https://asdcameralk.vercel.app>

Smart Note App - AI note-taking app with retrieval-augmented generation (RAG)

<https://ai-notes-app-omega.vercel.app/>

Skills - Next 15, Convex Db & Backend, Vercel AI SDK v5, Framer motions, OpenAI API, Typescript

Sleep Tracker - fully responsive and modern Sleep Tracker web app using the latest fullstack technologies

Skills - Next 15, Tailwind CSS, Neon(PostgreSQL), Clerk

<https://sleep-tracker-psi.vercel.app/>

REFERENCES

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