Thamindu Wijerathne

AI Engineering Intern

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Profile Summary

Third-year undergraduate at the UCSC with a strong foundation in programming, software engineering, databases, and mathematics. Skilled in Machine Learning, Generative AI, and full-stack development, with practical experience in modern frameworks, cloud technologies, AI tools, and the SDLC. Knowledgeable in Agile methodologies, a quick learner, and a collaborative problem solver, adept at building intelligent, scalable, and user-friendly applications. Eager to contribute technical expertise and innovation during an internship to deliver impactful results.

Education

University of Colombo School of Computing   *May 2023 – Present*
BSc in Computer Science

- GPA: 3.3/4.0
- **Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Software Engineering, Database Systems, Web Development, Mobile Application Development, Operating Systems , Machine Learning

Kingswood College   *Jan 2020 – Dec 2022*
GCE Advanced Level in Physical Science

- Combine Mathematics - A , Physics - A , ICT - B

Certifications

- Supervised Machine Learning: Regression and Classification (Stanford University)
- Advanced Learning Algorithms (Stanford University)
- Docker Training Course for the Absolute Beginner (KodeKloud)
- AWS Educate Introduction to Cloud 101 (AWS)

Projects

Business Management System (Client Project)   *may 2025 – Present*
View on GitHub ↗

- Developed a full-stack inventory and CRM management system using React for the user interface and Spring Boot for backend REST APIs.
- Applied modules for supplier management, customer tracking, inventory control, and sales monitoring.
- Integrated PostgreSQL database with JPA / Hibernate for efficient data persistence and relational mapping.
- Technologies Used: **React, Spring Boot, PostgreSQL, RESTful APIs, Git**

MentorME - 2nd Year Group Project
View on GitHub ↗   *june 2024 – march 2025*

- Created a web-based system to manage student projects, submissions, and progress tracking for the campus.
- Implemented features for CSV import/export and data visualization using dynamic graphs.
- Designed modular backend using PHP and MySQL for secure data storage and relational management.
- Technologies Used: **HTML, CSS, PHP, JAVASCRIPT, JIRA, Git**

Lovelink – Instant Mobile Chat App
Aug 2025

View on GitHub ↗

- Developed a mobile app enabling user connections via QR code scanning and real-time chat.
- Implemented push notifications to alert users of new messages instantly.
- Designed intuitive UI/UX for seamless onboarding, profile management, and chat experience.
- Technologies Used: **Flutter, Dart, Firebase Authentication, Firestore Realtime Database, Git**

EasyDraw – Hands-Free Sketching with AI
Dec 2024

View on GitHub ↗

- Developed a hand gesture-based drawing tool that allows users to create sketches using intuitive hand movements, enhanced with AI-generated image transformations.
- Created gesture recognition with MediaPipe and CVZone, and AI-enhanced image generation using NVIDIA's AI image generator and Google Gemini Model.
- Integrated PostgreSQL database with JPA/Hibernate for efficient data persistence and relational mapping.
- Technologies Used: **Python, MediaPipe, CVZone, Streamlit, Google Gemini Model, NVIDIA AI Image Generator**

End-to-End Medical Chatbot

View on GitHub ↗
July 2025

- Developed a Python-based medical chatbot using LangChain and OpenAI models for natural language understanding.
- Implemented a semantic indexing system coupled with a vector database (Pinecone), facilitating efficient knowledge extraction from PDFs.
- Technologies Used: **Python, LangChain, OpenAI API, Flask, Pinecone, Cohere, Jupyter Notebook, Git , HuggingFace**

Achievements

- **IDEALIZE 2025 by University of Moratuwa** – Participation confirmed, results pending.

- **EvolveX by University of Kelaniya** - 2nd Runner Up

Technologies

Languages: JavaScript, TypeScript, Python, PHP, Java, Scala, Kotlin, R, Dart, C, C++

Frameworks / Libraries: ReactJS, Next.js, ExpressJS, SpringBoot, Node.js Tailwind CSS, LangChain, Pytorch, Hugging Face

Databases : MySQL, PostgreSQL, SQLite, Firestore, MongoDB, Appwrite

Mobile Development : React Native, Flutter, Android SDK

Tools & Platforms : Docker, Postman, VS Code, IntelliJ, Jupiter Nootbook, n8n

Version Control : Git, GitHub Desktop

Core Strengths : Mathematical reasoning, algorithmic problem-solving, Analytical thinking, adaptability

Technologies

Mr. N H P I Maduranga BSc.(Hons) in Computer Science (UCSC)

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