



ABOUT ME

With a strong aptitude for teamwork, adaptability, and a commitment to excellence, I am eager to pursue a career in computer science and engineering. My passion for technology, combined with my academic background, equips me to contribute effectively to innovative solutions. I am excited to join a dynamic team where I can further develop my skills and make a meaningful impact in the field.



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[Portfolio](#)



[LinkedIn](#)



[GitHub](#)



medium.com/Basadee_Thennakoon

TECHNICAL SKILLS

- Programming Languages
 - Java | Python | JavaScript
- Frameworks and Libraries
 - ReactJS |
 - Spring Boot
- Databases
 - MySQL | PostgreSQL |
 - MongoDB
- Specializations
 - Computer Vision |
 - Large Language Models
- Cloud Services
 - AWS

BASADEE WARNIKA THENNAKOON



WORK EXPERIENCE

SyscoLABS Technologies Private Limited

Intern Software Engineer -Team EAG

2023 Nov - 2024 May

- Major Contribution to the **Admin Utility Application**: Collaborated with the team to develop the Meal and Shuttle Reservation application for company use, successfully handing it over for testing. This project included implementing all core functionalities and designing an intuitive user interface using Power Apps.
- **Sysco Warehouse Productivity Analysis system** as the Project Summit 4IR and development contribution for Excellence Hub.

Teaching Assistant - University of Moratuwa

Database Systems , Program Construction

2024 Jul - Present

- Under the supervision of Dr. Sapumal Ahangama.



EDUCATION

BSc Eng (Hons), Computer Science & Engineering, University of Moratuwa

2021-present

- Specializing in Data science and Engineering
- CGPA of 3.45 / 4.0

Sri Lanka Singapore Friendship College

2011-2019

- G.C.E A/L 2019: 3A Passes (Physical Science Stream)



PROJECTS

Automated Feedback Generation System with Metacognition (Final Year Group Project— Ongoing)

- Project Overview
 - The project aims to enhance the tutoring experiences for computer science students by generating personalized feedback based on learners' metacognitive data. It focuses on guiding students on their problem-solving both in introductory and competitive-level algorithm design tasks by tracking performance, identifying learning gaps, and delivering targeted step-by-step feedback to support self-regulated learning, which has been personalized by each student's unique metacognitive ability.
- Contribution
 - Developing a custom Large Language Model (LLM) architecture using the **Persona Adaptive Attention**.
 - Generating personalized feedback using **Instructive Prompt Tuning** for LLMs.
 - Collaborative support in creating a dataset for fine-tuning by designing a metacognition questionnaire and organizing a hackathon to gather relevant data.
 - Used Technologies: **Python (LLM fine-tuning), Kaggle , Colab**

CERTIFICATIONS

- Neural Networks and Deep Learning - DeepLearning.AI ([cert](#))
- Exploratory Data Analysis - Coursera Project Network. ([cert](#))
- Supervised Machine Learning: Regression and Classification - DeepLearning.AI ([cert](#))
- Advanced Learning Algorithms - DeepLearning.AI([cert](#))
- Java FullStack Developer - Coursera Board Infinity ([cert](#))
- AWS Academy Graduate - AWS Academy Machine Learning for Natural Language Processing.([cert](#))

SOFT SKILLS

- Communication Skills
- Adaptability
- Problem-Solving
- Time Management
- Dedication
- Collaboration
- Critical Thinking

COMPETITIONS AND VOLUNTEERING

- IEEE Extreme 16.0 (Island Rank - 87 | World Rank - 1434)
- MORAXTREME 2.0
- DATASTORM 4.0 (Rank - 32 Storming Round)
- EXMO2023 Web & App -Member of the development team.
- IEEE Extreme 17.0

REFERENCES

Dr. Sandareka Wickramanayake,
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Warehouse Productivity Analysis System

(Internship Project): Shortlisted under the top 10 Intern Project Summit projects

- Project Overview: Developed a system to analyze live feed data from cameras in Sysco warehouse docks during good dispatching processes for trucks, providing actionable insights, real-time alerts, and performance metrics for warehouse managers and employees, to optimize operations and improve efficiency.
- Used Technologies: **Python (Computer Vision—YoloV8 model tuning)** , **AWS Sagemaker**

B2B Sales Application (Internship Project)

- Project Overview: Developed a full-stack B2B sales application using Spring Boot microservices, Node.js as the Backend-for-Frontend (BFF), and Single SPA React.js for micro-frontends. Integrated PostgreSQL for database management to support seamless business transactions and improve system scalability.
- Used Technologies: **ReactJS**, **NodeJS**, **SpringBoot** , **PostgreSQL**

Visual Product Recognition System

(Sep 2023 - Nov 2023)

HuggingFace | MVP StreamLit APP

- Project Overview: Developed a visual product recognition system using a CNN-based image similarity model to identify and retrieve up to 1000 similar images based on Euclidean distances between embeddings.
- Contribution
 - Collaborative support in developing the CNN-based model, Convenxt.
 - Built the web application using React front-end , Flask back-end.
- Used Technologies: **CNN** , **ReactJS** , **Flask**

Supply Chain Management

(Dec 2022 - Feb 2023)

- Project Overview: Developed an e-commerce platform for buying, selling, and delivering goods, streamlining supply chain operations.
- Contribution
 - Collaborative support in developing the front-end using ReactJS and managed the database.
- Used Technologies: **ReactJS**, **Node JS**, **MySQL**

Email Client (Jul 2022 - Aug 2022).

- Project Overview: Automatic email responder CLI. Based on Java object-oriented programming and Java design patterns.
- Used Technologies: **JAVA**