Dasun Thathsara

+94 77 620 2215 | dasunthathsara974@gmail.com | [LinkedIn](#) | [GitHub](#) | [dasunthathsara.me](#)

A final-year Computer Science undergraduate at the University of Colombo School of Computing focused on full-stack and AI-driven systems. Experienced in building secure backend services, APIs, and agent-based AI pipelines, with hands-on work in document processing, data ingestion, and retrieval-augmented generation. Comfortable working across backend, frontend, and cloud environments, with a strong focus on correctness, security, and building systems that can be safely used in real-world settings.

EXPERIENCE

Research Intern – EEG-Based Image Generation
Nov 2024 – May 2025

COTS Lab - University of Colombo School of Computing

- Contributed to research in EEG-based image generation, focusing on transforming brain signal data into visual outputs using deep learning approaches
- Worked on EEG signal acquisition, preprocessing, and analysis using real-world datasets, gaining hands-on experience with brain–computer interface (BCI) systems and EEG recording devices such as EmotivPRO
- Developed a custom EEG annotation tool to label EEG signals during image presentation, supporting efficient data collection and improving dataset quality for ongoing research
- **Technologies used:** Python, Flask, React, MATLAB, EmotivPRO, LaTeX

EDUCATION

University of Colombo School of Computing
2022 – Present

Bachelor of Science (Hons.) in Computer Science

Royal College Panadura
2006 – 2020

Physical Science Stream

PROJECTS

CoMind | *LangChain, LangGraph, Groq LLMs, FastAPI, Spring Boot, React, TypeScript, Vite*   2025
- An AI-powered platform that turns backend creation into a collaborative, agent-driven process. It orchestrates multiple intelligent agents to plan, design, and break down complete backend systems from natural-language requirements, producing structured backend blueprints and implementation-ready outputs with minimal manual effort.

Shieldy | *Azure OpenAI GPT-4.0, FastAPI, React, TypeScript, Vite, Firebase, JavaScript*   2025
- An AI-powered browser extension and parental monitoring platform designed to protect children from cyberbullying and unsafe online behavior. It automatically detects and blocks inappropriate text inputs across web platforms while allowing parents to manage child accounts and monitor activity through an interactive dashboard.

Sri Tel | *Spring Boot, KeyCloak, MySQL, MongoDB, Apache Kafka*   2024
- A fully integrated web and mobile telecom platform built using Spring Boot–based microservices, enabling seamless account management, efficient billing, and real-time service activation and deactivation. The system follows clean, object-oriented design, with secure authentication, well-documented REST APIs, and event-driven components to ensure scalability, reliability, and a smooth customer experience through interactive support and personalized services.

FinForecast | *FastAPI, Python, React, TypeScript, MongoDB, LangChain, Git*   2024
- An AI-driven stock prediction platform developed for the Colombo Stock Exchange (CSE). It provides accurate stock price forecasting, an interactive chatbot for accessing company financial insights, and advanced comparison tools that allow users to evaluate companies based on metrics such as profit, income, loss, and both predicted and current stock performance.

La Fresca | *React, TypeScript, Vite, Spring Boot, MongoDB, Python, FastAPI, Swagger, Figma, Git*   2024
- A café management system that centralizes kitchen operations, store management, delivery handling, and both online and offline order processing. The platform improves daily operations through well-structured backend services, clean code practices, peer code reviews, and well-documented APIs, while stock prediction models forecast inventory needs to support smooth service and better resource planning.

Awards and Recognitions

Data Crunch - Winner 2025
Data Science hackathon organized by Department of Computer Science & Engineering, University of Moratuwa

Tech-Triathlon - 2nd Runner Up 2024
Hackathon organized by Rootcode

IntelliHack NextGen - Finalist 2024
Inter-university AI hackathon organized by UCSC

CodeSprint 8.0 - Finalist 2024
Hackathon organized by IEEE Student Branch of IIT

RealHack 5.O - 1st Runners Up 2024
Hackathon organized by Software Engineering Students' Association & IEEE Student Branch, University of Kelaniya

CODEFEST 2023 Algothon - Merit Award (4th Place) 2023
Inter-university competitive programming competition organized by SLIIT

IEEE Xtreme 17.0 - A Global Rank of 571 and An Island Rank of 41 2023
Global Competitive Programming Hackathon

Certifications

Building AI Agents and Agentic Workflows Specialization (IBM) 2025

Generative AI and LLMs: Architecture and Data Preparation (IBM) 2025

Introduction to Containers w/ Docker, Kubernetes & OpenShift (IBM) 2025

AWS Educate Introduction to Cloud 101 (Amazon Web Services) 2023

Volunteering and Positions of Responsibility

CSSL GenZ Student Chapter of UCSC 2025 – Present
- Vice Chairperson

UCSC ISACA Student Group 2023 – 2024
- Executive Committee Member

ACM Student Chapter of UCSC 2023 – 2024
- Membership Chairperson

Skills and Interests

Languages: Python, Java, SQL, JavaScript, TypeScript, C/C++

Backend: FastAPI, Flask, Spring Boot, Hibernate/JPA, REST APIs, Microservices Architecture

AI & LLM Systems: LangChain, LangGraph, LLM integrations, RAG, FAISS

Databases: MySQL, PostgreSQL, MongoDB

API & Testing Tools: WSO2 API Manager (APIM), Swagger/OpenAPI, Postman, Selenium

Frontend: React, HTML, CSS

Cloud & DevOps: AWS, Azure, Oracle, Docker

Soft Skills: Problem Solving, Communication, Teamwork

Tools: Git, IntelliJ, PyCharm, Visual Studio, Visual Studio Code, JIRA, Figma

References

S. A. Chandrasiri
Principal Software Engineer / AI Engineer at Focus Insite
Email: chandrasiris@gmail.com
Phone: +1 857 961 7293

Tharindu Rukshan
Lead Software Engineer — Tech Lead at IFS
Email: tharindu.rukshan@ifs.com
Phone: +94 71 640 4343