



Chanvitha Praveen

Computer Engineer at Department of Computer Engineering of Faculty of Engineering University of Sri Jayewardenepura

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🌐 chanvithapraween.me 📍 116/2, Nugasewana, Medemulla, Minuwangoda

As a Computer Engineer, passionate in Full Stack Web Developing, Machine Learning & exploring new technologies. I possess a burning desire to solve real world problems. I'm a hardworking, responsible team player and eager to contribute and learn within a dynamic environment. (Open to work Immediately)

Work Experience

Currently Working at Singapore Based Logistics Management Software Company (Jan 2025 - Now)

- Contributing to a scalable product platform with 12 microservices, supporting 7 major clients and 20+ operations.
- Developing a new KPI-focused dashboard, revamped the GPS module, & delivering urgent client requirements.
- Ensuring system stability & performance by fixing L1 issues, writing unit tests, and improving development efficiency using Cursor & other new technologies in sprint-based workflows.

Tech Stack: Angular, NestJS, Python, Java, SpringBoot, TypeScript, REST, GraphQL, MongoDB, GCloud, Bitbucket, Kubernetes

Worked on Outsourced Contract Projects as a Software Engineer – ML (Aug 2024 - Dec 2024)

- Smart Attendance System for Workstation
- Dental Radiology Report Generator
- Text-Video, Image-Video + Audio Generation Pipeline Project

London Stock Exchange Group (LSEG), Sri Lanka – ML Engineer Intern (10 Months) (Feb 2023 - Dec 2023)

- Extracted data from diagram images and converted them into textual format to feed the LLM that was developing.
- Engaged in data collection, web scraping, preprocessing, and tested LlamaCPP Model in local machine.
- Designed and implemented React/Streamlit-based frontends for LLM prototype endpoint testing.
- Developed a CLI program to identify running AWS instances with user details, specific regions to reduce costs.
- Done Anomaly detection with different Algorithms & research on blockchain systems for Stock Market.

Tech Stack: Python, C++, Java, React, TensorFlow, AWS, Spark, Streamlit, Selenium, Automation

Spa Ceylon – Janet Lanka PLC, Sri Lanka – Reception Front Officer & Sales Assistant (1 Year) (Oct 2018 - Sep 2019)

Education

Faculty of Engineering - University of Sri Jayewardenepura, Sri Lanka (Nov 2019 - Oct 2024)

B.Sc. Eng. (Hons) in Computer Engineering
Minor Specialization: Data Management – 2nd Class Upper Division - GPA: 3.46/4.00

Bandaranayake Central College, Veyangoda - GCE A/L Physical Science Stream: 2A, 1B | Z-Score: 1.713 (2018)

President's College, Minuwangoda - GCE Ordinary Level Examination: 9A's (2014)

Proficient Concepts

Object Oriented Programming (OOP)	Data Mining & Database Management	Agile & Waterfall Environment
Data Structures & Algorithms (DSA)	Machine/Deep Learning & Intelligent Systems	Design Patterns
Software Engineering & QA	Micro Services, Monolithic Architectures	Networking & Security

Technical Skills

Languages - C/C++, Java, Python, JavaScript, TypeScript, HTML, CSS, PHP
Libraries & Frameworks - React, NextJS, NodeJS, NestJS, Angular (NgXS, RxJS), FastAPI, SpringBoot, TensorFlow
Databases – Oracle SQL, MySQL, GraphQL, PostgreSQL, MongoDB
Other Technologies - AWS, RESTAPI, Git/GitHub, Bitbucket, JIRA, Jest, Jenkins, Linux, Docker, Figma, Postman, MUI
Softwares & Tools – Cursor, AdobeXd, Packet Tracer, VS Code, Pycharm, IntelliJ, CLion, Illustrator, Photoshop

Soft Skills

Fast Learning, Team Working, Good Communication, Time Management, Problem Solving, Work-Life Balance with Hobbies

Projects & Research

Augmented Reality Based Simulator for Custom Made Garments (ClothCraft-AR - Final Year Project) [🔗](#)

A project for garment field that users input basic body measurements & the scratch Deep Learning model gives complex body measurements. Users can wear custom garments designed by super admins in virtual wardrobe before purchasing.

Tech Stack: [Augmented Reality \(AR\)](#), [Camera Kit\(Snap AR\)](#), [MERN Stack](#), [Python](#), [Data Preprocessing](#), [FastAPI](#), [Google Collab](#)

IPL Twitter Hashtags Analysis & Active Number of Users Forecaster (Data Management and Machine Learning) [🔗](#)

This project Analyzes Twitter hashtags data to understand user engagement trends over time & across cities for analyzing past macro-data, past micro-data, forecasting future data. Initial dataset had 11 columns, after feature engineering, could be able to have 22 columns. Hope to add real time data stream analysis part also using Kafka as further improvements.

Tech Stack: [Python](#), [Streamlit](#), [CSS](#), [FASTAPI](#), [TensorFlow](#), [Data Mining](#), [Deep Learning](#), [GEO-API](#), [Oracle SQL](#)

Advanced Computer Vision Sudoku Puzzle Detector & Solver [🔗](#)

This project is a 9x9 & 16x16 Sudoku Puzzle Solver application. Detect the puzzle via a camera & OCR by Easy OCR. Then pass the puzzle and solve in C++ because fast execution. For 9x9 puzzle it takes ~2.6ms & for 16x16 puzzle it takes only ~16.5ms.

Tech Stack: [C++](#), [Python](#), [React](#), [OpenCV](#), [OCR](#), [Computer Vision](#), [ML](#), [Heuristic Backtracking Algorithm](#)

Distributed Online Airline Reservation System using Microservice Architecture [🔗](#)

Developed separate services for User, Reservations, Flight Information, Frontend. Having Eureka service, load balancers, separate databases to have the microservice architecture. Try to maintain zero downtime with multi-servers (Blue/Green).

Tech Stack: [Java](#), [SpringBoot](#), [Eureka Server](#), [React](#), [Docker](#), [Microservices Architecture](#), [Postgres SQL](#)

AI vs Real Human Face Images Classifier using Vision Transformer Model (Individual Research) [🔗](#)

Classify High Realistic Stable Diffusion AI generated images and Real photographs of Human Faces to protect online privacy. Trained a custom dataset that assembled ~17000 images on ViT (Vision Transformer) model & developed an API to integrate into image uploaders in social media apps, web sites, etc. Currently got 99.97% accuracy & doing more optimizations.

Tech Stack: [Python](#), [FastAPI](#), [Google Collab](#), [ViT\(Vision Transformers\)](#), [Pandas](#), [Image Processing](#)

Realtime Chat Translator for Improve Ethnic Cohesion in Society [🔗](#)

A Web Application with translation functionality for improve the ethnic cohesion. Users can send messages in their native language, then translated and displayed to the recipient's chosen language. All messages show in a common chat lobby.

Tech Stack: [Python](#), [Streamlit](#), [MyMemoryTranslation API](#), [Realtime Firebase](#)

Inventory Management System

This is a fully functional console-based system. This includes stock, staff, and supply functionalities. Stock refilling, billing, supply origins/destination details, user add/delete, and many more. Used OOP concepts, Design patterns in this system.

Tech Stack: [Java](#), [XML](#), [OOP Concepts](#), [Design Patterns](#)

Hotel Management System

Full UI is designed by adobe Xd. It includes Logging, Register, Booking, Gallery User end, Admin panel, Database, & more.

Tech Stack: [PHP](#), [JavaScript](#), [HTML](#), [CSS](#), [MySQL](#), [Adobe Xd](#)

Certifications

Python Data Structures - University of MICHIGAN [\(Credential\)](#)

Introduction To Machine Learning – Kaggle [\(Credential\)](#)

React Basics - Meta [\(Credential\)](#)

SQL For Data Science - UC Davis [\(Credential\)](#)

Introduction To Cybersecurity - Cisco [\(Credential\)](#)

AWS Educate Introduction to Cloud [\(Credential\)](#)

Extracurricular Activities & Experience

Editor IT - FLAIR Club – USJ (Lead the ~20 person media team)

Apr 2022 - Dec 2023

Finance Member – IEEE Student Branch – USJ (Sponsorships hunting, budget handling)

Oct 2021 - Oct 2023

Lead Marketing Member – Computer Engineering Society (CENSOC) - FOE - USJ

May 2022 – Jun 2024

Professional Affiliations

Active Student Member of IEEE & Computer Society

Active Student Member of IESL

Referees

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