



# Chanvitha Praveen

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

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📍 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.)

## Work Experience

### London Stock Exchange Group (LSEG), Sri Lanka - Engineering Intern (10 Months)

(Feb 2023 - Dec 2023)

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

I support & develop sub tasks related to test case generation LLM, Data extract from diagrams & convert them into textual format, program for identify running AWS Instances in every user in the domain in specific region, Data collect & preprocess, anomaly detections, React/Streamlit base frontend for LLM'S prototype testing, and Blockchain Development Research, etc.

### 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 – July 2024)

B.Sc. Eng. (Hons) in Computer Engineering

Minor Specialization: Data Management - 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

Micro Services, Monolithic Architectures

Networking & Security

## Technical Skills

**Languages** - C/C++, Java, Python, JavaScript, TypeScript, Dart, HTML, CSS, PHP

**Libraries & Frameworks** - React, NextJS, NodeJS, FastAPI, SpringBoot, TensorFlow, Flutter, Tailwind, MUI, OpenCV

**Databases** - MySQL, PostgreSQL, Firebase, MongoDB

**Other Technologies** - AWS, RESTAPI, Git/GitHub, Bitbucket, JIRA, Jenkins, Linux, Docker, Figma, Postman, Azure

**Softwares & Tools** - 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

### IPL Twitter Hashtags Analysis & Forecaster

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*

### Advanced 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

Developing 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*

## AI vs Real Human Images (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*

## ClothCraft-AR (FYP Group 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*

## Realtime Chat Translator

A Web Application with translation functionality for improve the ethnic cohesion. Users can send messages in their 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*

## eIcare Mobile Application

'Elcare' is developed for senior citizens to assist effectively. They will get digital assistance through this application to easily manage their medical routines, sleep deprivation, emergencies, and to reach the family doctor and share their medical info.

**Tech Stack:** *Flutter, Dart, Firebase, SQLite, Android, Hive*

## 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

Check all flyers & videos before publishing on social media, Lead the ~20 person media team

Apr 2022 - Dec 2023

### Finance Member – IEEE Student Branch - USJ

Sponsorships hunting, budget handling of all the events organized by the committee

Oct 2021 - Oct 2023

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

Organizing Industrial Sessions, Events, Competitions

May 2022 - Jun 2024

### Member - Art & Literature Sub Committee Students' Union - FOE - USJ

Active member of Orchestra ('Wassana Heena', 'Viramayak Live in Concert', etc.)

Mar 2020 - Jun 2024

## Professional Affiliations

Active Student Member of IEEE & Computer Society

Active Student Member of IESL

## Referees

### Dr. Udaya Wijenayake

Department Head & Senior Lecturer of Computer Engineering  
Faculty of Engineering University of Sri Jayewardenepura

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