

Mr. Harith Yerragolam

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Objective

Aspiring software engineering intern with a strong foundation in computer science and engineering, experienced in developing efficient software solutions. Always interested in learning new concepts, tools, frameworks, and staying relevant. Seeking to leverage my skills in programming, machine learning, and web development to contribute to innovative projects.

Education

IIITDM Kancheepuram

Btech+Mtech (Integrated) Dual Degree in Computer Science and Engineering

GPA: 8.73 (Until Third Semester)

Relevant coursework:

- Problem Solving and Programming
- Data Structures and Algorithms
- Discrete Structures in Computer Science
- Design and Analysis of Algorithms
- Object Oriented Programming
- Digital System Design

Chennai, Tamil Nadu, India

Expected Year of Graduation: 2028

FIITJEE Junior College

JEE Mains Score: 97.7 Percentile

Hyderabad, Telangana

2023

Technical Skills

- **Programming Language:** Python, C, C++, MATLAB, SQL, HTML, CSS, JavaScript, Flutter (Dart)
- **Frameworks and Libraries:** ReactJS, NodeJS, Express.js, Mongoose, Solidity, Ethers.js, Scikit-learn, NLTK, PyTorch, TKinter, Pandas, Matplotlib
- **Tools and Environments:** Figma, Git and GitHub, VS Code, PyCharm, Oracle AI and Basic knowledge in Unix/Linux
- **Databases:** MySQL, SQLite
- **Others:** Data cleaning, preparation and visualisation; Machine Learning, Natural Language Processing

Projects

Digital Circuit Simulator

October 2024 – December 2024

Co-Developed a Digital Circuit Simulator in C++ inspired by Logisim, modelling fundamental combinational logic gates (AND, OR, etc.). Implemented OOP principles, templates, exception handling, gtest framework, and CI pipelines via GitHub Actions. Features dynamic circuit design and simulation. Future plans include a GUI and sequential circuits. Special thanks to Dr. Raghavan sir for inspiring this project.

Stock Price Prediction and Sentiment Analysis in Finance

July 2024

Utilized modules like **Scikit-learn**, **NLP**, **NLTK**, **PyTorch**, **TensorFlow** to develop a Machine Learning Model for predicting stock prices and analysing sentiment from financial news as part of a project from the IIT Kharagpur Finance and Economics Club focusing on data extraction, preprocessing, Visualization, Model training and its evaluation, ultimately achieving an accuracy of 80% in stock price prediction and 60% in Sentiment Analysis.

Shopping-Selling Web App

June 2024 – July 2024

Developed the front-end and back-end using **ReactJS**, **NodeJS**, **Express.js**, **Mongoose**, **Solidity** and **Ethers.js** to create a web application for shopping and selling items with blockchain integration, focusing on implementing secure transactions using blockchain, enhancing user authentication and optimising **UI/UX design** as a part of a project from IIT Madras WebDev and Blockchain Club.

Audio File Analysis using Fourier Analysis

June 2024

Used **MATLAB** to analyze audio files using **Fourier transform** techniques, successfully identifying and visualising the frequency components of various audio files, aiding in sound quality analysis. Hence Developed and implemented the analysis, performing signal processing and frequency analysis as part of a project from IIT Madras Mathematics Club.

Used **Python** and **Tkinter** module to develop various small-scale projects, such as a calculator, to demonstrate Python’s GUI capabilities while automating tasks, creating a suite of user-friendly applications, enhancing understanding and showcasing the potential of GUI development in Python.

Work Experience

Web Developer Intern

Technical Affairs at IIITDM Kancheepuram

Chennai, Tamil Nadu
July, 2024

- **Duration:** Current
- **Responsibilities:**
 - Created a Quiz Web App and a Horizontal Slider Template Web App using **ReactJS** and **ExpressJS**, which led to my selection for the internship, Now in the process of being publicly implemented improving content accessibility and user interaction.
 - Currently, Collaborating with a team of 8 members to design the Technical Affairs [Webpage](#) using **Figma** and develop it using **ReactJS**. The current UI page is being replaced by the new UI developed by my team, enhancing visual appeal and usability.
 - Additionally, Developed a UI page for the Tech Fest of IIITDM Kancheepuram using **HTML**, **CSS**, and **JavaScript** to attract viewers and increase engagement, which will be implemented for the next Tech Fest, resulting in increased event registrations.
 - Presently, working as a **designer** and **developer**, focusing on **front-end development**, user experience enhancement, and collaborative project management.

Extracurricular Activities

- **Hackathon Participation:** Participated in a Hackathon conducted by the Competitive Programming Club of III October 2023
- **Class Representative:** Managed a class of 80 students with Leadership qualities. January 2024 - Current
- **Developer’s Club Coordinator at IIITDM Kancheepuram**
- **Music Club Coordinator and Video Editor at IIITDM Kancheepuram**
- **Alumni Affairs Content Writer at IIITDM Kancheepuram**
- **Esports Club Coordinator at IIITDM Kancheepuram**
- **Training and Placement Cell Volunteer at IIITDM Kancheepuram**
- **Top Problem Solving Voice July ‘24 at LinkedIn**

Certifications

- **AI Foundations and Generative AI Professional** - Oracle Cloud Infrastructure 2023 AI Certified Foundations Associate
- **Python for Data Science, AI and Development** – IBM
- **Introducing Generative AI with AWS** – Udacity
- **Crash Course on Python** – Google
- **Develop GenAI Apps with Google and Streamlit Skill Badge** – Google Cloud
- **Mathematics for Machine Learning: Linear Algebra** – Imperial College London
- **Generative AI** – Google Cloud
- **Introduction to Git and GitHub** - Google
- **Prompt Design in Vertex AI** – Google Cloud
- **Python (Basic)** – HackerRank
- **The Joy of Computing using Python** - NPTEL
- **The Ultimate MySQL Bootcamp: Go from SQL Beginner to Expert** – Udemy
- **SQL for Data Science** - UCDavis
- **SQL (Intermediate)** – HackerRank
- **Discovering Quantum Computing** - Udacity
- **MATLAB Onramp** – MathWorks
- **Machine Learning Onramp** - MathWorks
- **Problem Solving (Basic)** – HackerRank
- **Data Science with Python Bootcamp** – LetsUpgrade
- **HTML5 and CSS3 Bootcamp** – LetsUpgrade
- **JavaScript Bootcamp** - LetsUpgrade
- **Active Listening: Techniques for Effective Leadership** – Eduta