Mahesh Paul J

Undergrad Student

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https://linkedin.com/in/mahesh-paul https://github.com/maheshpaulj

Professional Summary

Tech Enthusiast CS student at SRM University, Kattankulathur with a passion for technology. Possesses strong foundational skills in Python, C, and web development gained through coursework and personal projects. Eager to leverage these skills and thirst for knowledge in a real-world internship. Committed to actively contributing to projects and collaborating eff ectively within a team environment.

Projects

NoteScape

https://notescape.vercel.app/

- Developed **NoteScape**, an AI-powered collaborative note-taking app with advanced features.
- Integrated Meta's **Llama model** for smart translation and context-aware Q&A functionalities.
- Implemented **real-time collaboration** with live cursors and shared editing for seamless teamwork using LiveBlocks.
- Designed and developed using **Next.js** (frontend), **Firebase** (database) and **Cloudflare Workers** (backend) for scalability and security.

ResumeItNow

https://resumeitnow.vercel.app/

ResumeItNow - Free Open Source Resume Builder

- Utilizes AI to generate content and create a perfect resume.
- Offers 100% free, watermark-free resume building.
- Provides a selection of clean, professional templates.
- This **Resume is built using ResumeItNow**, a reliable and efficient platform.

Website Portfolio

https://maheshpaul.is-a.dev/

- Created a visually appealing online portfolio using **NextJS** for a dynamic and interactive experience.
- Utilized **Framer Motion** and **gsap** to add fluid animations and made the website lively with smooth transitions.
- Leveraged **Vercel** for seamless deployment, ensuring my portfolio is readily accessible to potential employers and collaborators.

Traffic Light Detection System

https://github.com/maheshpaulj/Traffic-Light-Detection-YOLOv8

- Developed AI-powered Traffic Light Detection model utilizing **Haar Cascade** and **YOLOv8** architectures
- Utilized Colab with **Keras** and **TensorFlow** libraries for model training and deployment
- **Roboflow** was used to maintain the dataset.

Lane Detection using YOLO and OpenCV

https://github.com/maheshpaulj/Lane_Detection

- Real-time Lane and Vehicle Detection, Utilized **YOLOv8** and **OpenCV** to identify lanes and - vehicles, with distance estimation.
- **Autonomous Driving and Traffic Analysis**: Ideal for applications requiring precise vehicle tracking and lane detection capabilities.

Education

M.Tech Computer Science w/s Cognitive Computing June 2022 - May 2027

SRM Institute of Science and Technology

GPA: 9.07/10

Skills

Programming Languages : Python, C, C++, TypeScript, JavaScript, Java

Machine Learning Frameworks : Numpy, Pandas, OpenCV, YOLO, Keras

Web Development : HTML, CSS, ReactJS, NextJS, TailwindCSS, APi Integration, AI Integration

Certifications

Programming For Data Science February 2023

NPTEL

Programming in Java October 2023

NPTEL

Introduction to Database Systems April 2024

NPTEL

Introduction to Machine Learning October 2024

NPTEL