



SANTHOSH KUMAR K

 santhoshkumarkarthikeyan.me

FULL STACK DEVELOPER | AI/ML ENTHUSIAST | AUTOMATION FOCUSED DEVELOPER

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SUMMARY

Passionate Software Engineer with a solid foundation in problem-solving and a growing expertise in Artificial Intelligence, Machine Learning, Deep Learning, and cutting-edge technologies. Experienced in Python, C, C++, Java, and JavaScript, with a strong interest in building scalable systems using the MERN and MEAN stacks. Enjoys crafting intelligent, real-world applications—especially AI-powered tools, full-stack web platforms, and database-driven systems using MySQL, Oracle, and MongoDB. Actively involved in competitive programming and exploring cloud computing to scale ideas effectively. Known for replacing off-the-shelf solutions with custom-built, self-hosted alternatives—streamlining workflows, boosting efficiency, and maintaining full control of systems. Always eager to experiment, automate, and build things from the ground up. Performs best in fast-paced, collaborative environments where learning and innovation go hand in hand.

TECHNICAL SKILLS

Languages and Databases : Python, C, C++, Java, JavaScript, MySQL, Oracle SQL, Mongo DB

Web Stack: Mongo DB, Express JS, Angular, Node JS, React, React router

AI/ ML tools : NumPy, Pandas, TensorFlow, OpenCV, NLTK

Other skills: Microsoft Azure, Amazon Web Services, Competitive Programming

PERSONAL PROJECTS

AutoQuiz - An AI-powered automatic quiz generation platform 2025

- Automatic quiz generation and self-testing platform that contacts a Hugging Face inference model to get interactive quizzes and lets you test yourself on topics you need.
- Developed with React, Hugging Face Inference, Vanilla CSS with responsive UI for mobile interfaces.

Kollywood.io - A table-top game brought to desktop 2025

- Multiplayer table-top game based on one finding the movie intended by one with the characters in the movie's details.
- Developed with Node.js and Express.js for backend serving, Angular for frontend, Tailwind for styling, MongoDB for database.
- Handled web sockets for real time interactions between players using socket.io

Automated Mark Entry System - An AI-powered real time application 2024

- Automated System for detecting and entering marks from answer sheets at schools and colleges, easing work for teachers.
- Developed in python with a trained DL model using TensorFlow for detecting marks from answer sheets and storing it in CSVs.
- Layout analysis performed using OpenCV and common Computer Vision tricks.

Movie Management System 2023

- IMDB replica to manage movies through a user friendly GUI.
- Refined oracle database with well planned schema and user interface using Java.

ACTIVITIES AND CERTIFICATIONS

Hackathons

- Smart India Hackathon '24 Finalist
- Wonders of AI - Hackathon at Kalasalingam Academy of Research and Education Participant

Certifications

- Microsoft Azure AI Engineer Associate
- Foundation of Cloud IoT Edge ML - NPTEL
- Data Mining - NPTEL
- Cloud Computing Foundations - NPTEL
- IEEE English for Technical Professionals - IEEE

Events

- Organized a technical event on college premises - Query quest, a competition where every team races to find a culprit by running queries.
- Participated in several coding contests and problem solving events. Active participant in competitive programming platforms like Leetcode, Hackerrank, Codechef.

EDUCATION

MEPCO Schlenk Engineering College, Sivakasi

Bachelor of Engineering - Computer Science and Engineering

CGPA: 8.63

2022 - Present

K.V.S Higher Secondary School, Virudhunagar

HSC

Marks: 94 %

2020 - 2021

K.V.S Higher Secondary School, Virudhunagar

SSLC

Marks: 95 %

2019 - 2020