

Harikrishnan S S

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EDUCATION

Indian Institute of Information Technology, Gwalior

B.Tech in Computer Science and Engineering

2022 – 2026

CGPA: **8.60/10**

Sree Vivekananda Memorial Public School, Kerala

Senior Secondary (CBSE)

2019 – 2021

Grade: **95%**

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Java, JavaScript, SQL

Databases: MySQL, MongoDB, PostgreSQL, Redis

Tools: Linux, Node.js, VSCode, Git, Github, Postman, Docker, ReactJS, scikit-learn, Pandas, NumPy

Coursework: Operating Systems, Data Structures & Algorithms, Distributed Systems, Computer Networks, TCP/IP, Machine Learning, Information Retrieval, Object-Oriented Programming

EXPERIENCE

Full Stack Developer Intern

JitTec Solutions

Ongoing

Trivandrum, Kerala

- Building a modular full-stack Course Management platform using React and Node.js.
- Designing RESTful APIs with Express and developed optimized MongoDB schema to handle Course and User data.
- Supporting 500+ users and managing 10,000+ quiz records.
- Improved content load times by 25% through optimized data retrieval.

PROJECTS

Intrusion Detection System

Network Security + Machine Learning

May 2024 – July 2024

React, Node.js, Python, Flask, MongoDB, Chart.js

- Designed a real-time IDS system integrating ML and Computer Networking over Unix/Linux & Windows environments.
- Captured and parsed live traffic data; analyzed packets using Python and TCP/IP stack.
- Trained Random Forest on CICIDS 2018 dataset with **99% accuracy** for detecting DDoS, Brute-force, and infiltration attacks.
- Visualized predictions and data trends using Chart.js; reduced debugging time by **25%**.

Football Analytics via Computer Vision

Computer Vision Project

Nov 2024 – Jan 2025

Python, OpenCV, YOLO, K-Means, Optical Flow

- Built real-time football player detection and tracking system for live match footage.
- Used YOLO for accurate player detection; achieved **high-speed inference** on sports video frames.
- Applied K-Means clustering to segment jersey colors with **95% clustering precision**.
- Implemented Optical Flow to compensate for camera movement and maintain tracking stability.

ACHIEVEMENTS

Secured **99.36 percentile** in JEE MAIN (Top 0.7% nationally).

Solved **250+ DSA problems** on LeetCode and GeeksForGeeks.

EXTRACURRICULARS

Design Team Lead

Aurora, IIIT Gwalior's Cultural Fest

Jan 2024 – Mar 2024

Gwalior, India

- Led 10+ designers; produced digital and print assets for an event with 3000+ attendees.

Design Team Member

Career Development & Placement Cell, IIIT Gwalior

Ongoing

Gwalior, India

- Created promotional designs and branding for campus placement season, improving recruiter engagement.