

Harishkanna R

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SUMMARY

Aspiring Computer Science Engineering student with strong skills in data structures, algorithms, and software development. Proficient in Java, Python, and full-stack web technologies. Experienced in building user-focused applications and eager to apply technical knowledge to real-world projects.

EDUCATION

B.E. Computer Science and Engineering

Aug 2024 – Present

Sri Sivasubramaniya Nadar College of Engineering

CGPA: 7.256/10

Diploma in Electrical and Electronics Engineering

Jun 2021 – Apr 2024

Sri Moogabaigai Polytechnic College

Percentage: 96.14%

State First Rank Holder

TECHNICAL SKILLS

Languages: Java, Python

Web: HTML, CSS, JavaScript, Tailwind, React

Databases: MySQL, Oracle SQL

Tools: Git, GitHub, VS Code

Concepts: Data Structures and Algorithms, OOPS, DBMS, Operating System

Projects

IoT Weather Monitoring Station using Arduino and ESP8266

- Built a weather station using Arduino Uno, DHT11, BMP180, and ESP8266 to collect and transmit real-time temperature, humidity, and pressure data to the Blynk cloud.
- Enabled mobile dashboard visualization and cloud-triggered alerts for threshold-based environmental monitoring.

IoT-Based Fire-Fighting Robot using Arduino

- Designed and deployed an autonomous fire-detection and extinguishing robot using Arduino UNO, IR flame sensors, and ultrasonic obstacle avoidance.
- Programmed real-time decision-making logic to activate water pump and servo-controlled nozzle upon fire detection.

Inventory Management System (Java + MySQL)

- Developed a Java Swing application with MySQL backend for stock management, user authentication, and audit logging.
- Designed a normalized database with CRUD operations and implemented reports for low-stock alerts and purchase orders.

LEADERSHIP & ACTIVITIES

- Marketing and Social Media Executive, **SSN IEEE PELS Chapter**
Managed social media campaigns to increase chapter engagement and outreach.
- Deputy Head of Sponsorship, **SSN Laksya Entrepreneurship Club**
Coordinated sponsor outreach and helped secure funding for club events.

ACHIEVEMENTS & WORKSHOPS

- Secured State First Rank in Diploma in Electrical and Electronics Engineering with 96.14%.
- Attended a 3-day hands-on workshop on “System for Machine Learning” – practical exposure to supervised algorithms and Python implementation from IISc Bangalore.