SARWESHWARAN R S

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PROFESSIONAL SUMMARY

Enthusiastic Software Engineering student with a strong foundation in the field of Computer Science engineering principles, and a genuine passion for the full development of the software development cycle, right from the requirements analysis to the deployment. I am committed to delivering the efficient, high-performance solutions and enhancing the complex systems.

EDUCATION

Vellore Institute of Technology (VIT), Vellore

M. Tech (Integrated)– Software Engineering (2021 – 2026)

[School of Computer Science Engineering and Information Systems (**SCORE**)]

Current CGPA: 8.31 /10

Lakshmi Garden Matric Hr. Sec. School, Vellore (XI & XII)

2019-2021 Percentage: **89.8%**

Seventh Day Adventist School, Otteri, Vellore (VI - X)

2014 – 2019 Percentage: **92.0%**

SKILLS SUMMARY

- **Programming Languages:** Java, C++, JavaScript, Python
- **Software Development:** Data Structures and Algorithms, Object-Oriented Design and Design Patterns, Unit Testing and Code Optimization.
- **Front-end Development:** HTML5, CSS3, React.js, Next.js, Responsive Web Design.
- **Back-end Development:** Node.js, Express.js.
- **Operating Systems:** Windows, Ubuntu, Kali.
- **Tools:** Docker, Postman, Git, GitHub, Draw.io, PyTroch, sklearn
- **Databases:** MySQL, MongoDB.

PROJECTS

- **Developed a Real Time Video Conference Application**
  Developed a secure video conferencing application with authentication and real-time communication.
  Tools: Node.js, Next.js, Clerk Authentication, Stream API.
- **Developed a Cassava Plant Disease Identification System.**
  Built a Machine Learning (ML) model to detect the Cassava Plant diseases using the Image with the Help of the Generative AI Model.
  Tools: Python, TensorFlow/Keras, Scikit learn; Platform: Kaggle Notebook.
- **AI Enabled Smart Car Parking lot with Vehicle Classification and Parking.**

  Tools: ESP8266, UNO board, ESP32 Cam, React, Razor pay, Ngrok, Adafruit, Software Serial.

Certifications:

➔ Introduction to Generative AI - Google ➔ Azure AI-900 – Microsoft ➔ Ethical Hacking – Web App -Udemy

Publications:

Generative AI in Cassava Plant Disease Detection: Access to Chapter September2024- December 2024