Veluri Pavan Vignesh

Full Stack Developer
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Summary

Entry-level Full Stack Developer with hands-on experience building AI-powered web applications and data-driven systems. Strong foundation in Data Structures, Algorithms, Web Development, and Machine Learning. Hackathon award winner with experience delivering scalable, production-ready software.

Technical Skills

Languages: C, Python, Java, JavaScript, Dart
Frontend: HTML, CSS, React
Backend: Node.js, Express.js, REST APIs
Databases: MongoDB, MySQL
AI / ML: Machine Learning, LLM APIs, Scikit-learn, Matplotlib
Currently Learning: Deep Learning, LLMs
Tools: Git, GitHub, Postman, Clerk Auth, Render, Vercel, VS Code, Matlab, Star UML

Projects

HireVerse – AI-Powered Mock Interview Platform *[Full Stack + AI]* | GitHub | Live Demo

- Built an AI-driven mock interview platform with role- and experience-based dynamic question generation for DSA, Aptitude, Verbal, and behavioral rounds.
- Integrated Speech-to-Text, Text-to-Speech, automated scoring, AI feedback, performance analytics, and secure Clerk authentication.
- Implemented subscription-based premium access with free trial and payment workflow integration.

MediSphere – Smart Hospitalization Platform *[Full Stack + AI]* | GitHub | Live Demo

- Developed a smart healthcare platform enabling appointment booking, doctor–patient communication, and secure (EHR) management.
- Implemented AI-powered chat assistant, emergency SOS services, pharmacy orders, and automated health report analysis with trend visualization.

Anti-Theft Bag Security System *[Embedded Systems + ML]*

- Built a smart luggage security system using STM32F401, MPU6050 accelerometer-gyroscope, SW-420 vibration sensor, HC-05 Bluetooth module, and OLED display for real-time monitoring.
- Implemented a lightweight Decision Tree model to classify motion and vibration patterns, triggering Bluetooth alerts within 150ms upon detecting abnormal activity.

GeoHealth – Hospital Search System *[DSA]*

- Developed a high-performance hospital search and management system using R-Tree for geo-based range and nearest-neighbor queries.
- Implemented prefix-based hospital name and address search using Trie with autocomplete support.
- Prioritized hospitals using MaxHeap based on ratings and maintained recent search history using Stack.

Education

Amrita Vishwa Vidyapeetham	2023 – 2027
B.Tech in Computer Science and Engineering	CGPA: 6.66 (updating)
Sri Chaitanya Junior College	2021 – 2023
Intermediate (+2) (MPC)	Score: 905 / 1000

Achievements

- **2nd Prize – Agentica Hackathon (IIIT Sri City):** 60-hour national-level hackathon (20,000).
- **Top 5 – Technova Hackathon:** MediSphere healthcare platform.
- **Research Author – IEEE I-SMAC 2025:** Paper on Explainable and Interpretable LLMs for Kids Nutrition.

Licenses & Certifications

- Deloitte Australia Data Analytics Job Simulation – Aug 2025
- Oracle OCI 2025 Generative AI Professional – Oct 2025
- Oracle AI Vector Search Professional – Oct 2025