

Neelam Naga Saivenkata Suryavenu

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Education

Vellore Institute of Technology, Chennai

B.Tech - Computer Science and Engineering, 9.12/10 CGPA

Kendriya Vidyalaya H.V.F, Avadi

Class XII, PCM with Computer Science, Higher Secondary, 94.2% ; Class X, Senior Secondary, 94.2%

Sep 2021 – June 2025

Chennai, IND

2009 - 2021

Chennai, IND

Experience

Software Engineer — Intern → FTE

Scienaptic Systems

Jan 2025 – Present

Bangalore, Karnataka

- Converted to full-time after a 6-month internship; contribute to backend development using Scala and Play Framework.
- Collaborate with cross-functional teams to build scalable data-driven financial intelligence platforms, optimizing performance and reliability.

Full Stack Developer Intern

IdeaEdu

June 2024 – August 2024

Chennai, Tamil Nadu

- Enhanced customer support efficiency by developing a Call Management System using MERN stack and Twilio. Redirected calls to free agents, allocated priority, and ensured timely query resolution through effective data tabulation.
- Implemented automated incident prioritization using an Incident Priority Matrix to optimize response times and resource allocation for improved system performance.

Hybrid App Developer Intern

Mile Deep Works Pvt Ltd.

Aug. 2023 – Sep. 2023

Kakinada, Andhra Pradesh

- Gained hands-on experience with Cordova, HTML, CSS, and JavaScript in developing a hybrid mobile application.
- Developed backend APIs using PHP and MySQL, enhancing proficiency in full-stack development.
- Successfully built a hybrid application, demonstrating expertise in the complete tech stack.

Projects

Smart Aquaculture | React Native, Flask, IoT, ML

- Built a cross-platform Android app using **React Native** for real-time monitoring of water quality via **Bluetooth-connected sensors**.
- Developed a **Flask backend** to serve ML models and control hardware via relays, enabling anomaly detection and adaptive oxygen regulation based on **DO, pH, temperature, and salinity** data.

Call Management System | MongoDB, ExpressJS, ReactJS, NodeJS, Figma

- Developing a Call Management System, to redirect calls and keep track of incidents based on an Incident Priority Matrix.
- Utilised the MERN Stack, Twilio (Programmable Communication Tool).

AyushOneStopPortal | PHP, XAMPP, MySQL, HTML, CSS, JS

- Addressed industry fragmentation and lack of collaboration of AYUSH Organization, by centralizing resources and creating a one-stop platform for all its stakeholders.
- Utilized Apache Web Server, PHP interpreter, and MySQL in XAMPP control panel for back-end services.
- APIs: Alpha Vantage API, OpenStreetMap API.

Enhancing Malware Detection and Classification with CNN | TensorFlow, Pandas, Keras, NumPy, Scikit-learn, Matplotlib

- Developed a Deep Sequential CNN-based framework for malware detection and 25-class classification, achieving up to 98.1% accuracy.
- Conducted robust evaluation with hold-out cross-validation, achieving high performance with accuracy consistently exceeding 90%.

Positions and Responsibilities

Core Member

Sahayatha Club

Sep 2023 – May 2024

VIT, Chennai

- Skills: Marketing, Management, Team Work.

Asst. Team Lead

SIH Hackathon 2023

Sep 2023 – Oct 2023

VIT, Chennai

- Qualified the **college-level hackathon** by creating a **one-stop portal** for the **AYUSH organization**.
- Skills: Team Coordination, Team Leadership, Team Management, Team Motivation, Team Work.

Assistant School Pupils Leader

KVHVF

Apr 2019 – Apr 2020

AVADI, Chennai

- Elected** by both students and faculty for exceptional **organizational** and **interpersonal skills**.
- Skills: Leadership, Public Speaking

Skills

Languages: Java, C, C++, JavaScript, Python

Frameworks/Tools: ReactJS, Node.js, Express, Git, MongoDB, AWS

Others: MySQL, Figma, Postman, Linux

Certifications & Patents

Publications & Patents:

- Dhanushkodi, K., Kumar, R., Mittal, P. et al. Enhancing resource utilization and privacy in IoT data placement through fuzzy logic and PSO optimization. Cluster Computing (2024). (Link)
- Utility Patent for "A BABY MONITORING SYSTEM, AND METHOD THEREOF" having Application No. 202441039415 patent filled.

Certifications:

- Ethical Hacking-Top 1% [NPTEL] (Link)
- Data Analytics With Python-78% [NPTEL] (Link)