

VENKATA NAVEEN GALLA

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GitHub: <https://github.com/naveen93929>

SUMMARY

A dynamic and versatile Electronics and Communication Engineering graduate, skilled in both hardware and software development. Proficient in multiple programming languages (C/C++, Python, Java, JavaScript) and web technologies (HTML, CSS, React) with databases like (SQL/MySQL, Mango DB). Experienced in IoT, Python, Machine Learning, Embedded Systems and with hands-on expertise in designing advanced sensors, IoT solutions, and software applications. Passionate about driving innovation and solving complex technical challenges. Currently exploring new opportunities and passionate about solving technical challenges and driving impactful solutions across diverse tech domains.

WORK EXPERIENCE

Research Associate

Leap Robots, Hyderabad | November 2023 – November 2024

- Developed advanced robotic systems using microcontrollers, IoT, and embedded technologies, ensuring seamless integration and performance optimization.
- Implemented Python-based algorithms for machine learning models, enhancing robotic decision-making and functionality.
- Designed and tested hardware components, including network protocols, to improve system reliability and connectivity.
- Conducted rigorous hardware and software testing to identify and resolve issues, ensuring robust product deployment.
- Led cross-functional teams to streamline production workflows, resulting in a 20% increase in efficiency and customer satisfaction.

EDUCATION

Bachelor of Technology in Electronics and Communication Engineering

Usha Rama College of Engineering and Technology, Vijayawada
September 2019 – July 2023

Intermediate (+1 & +2)

Sri Vivekananda Central School, Tenali
August 2017 – June 2019

Secondary School Certificate (SSC)

Z.P. High School, Kolluru
August 2016 – April 2017

SKILLS

Technical skills

- **Programming Languages:** Python, C, C++, Java, JavaScript
- **Databases:** SQL/MySQL, Mango DB
- **Web Development:** HTML, CSS, WordPress, Bootstrap, React
- **IoT & Embedded Systems:** Microcontrollers, Arduino, Raspberry Pi, IoT-based solutions
- **Hardware & Networking:** Circuit design, PCB testing, network protocol implementation
- **Tools & Platforms:** MATLAB, AutoCAD, GitHub, Multisim, MS Office
- **Knowledge:** Machine learning, Front-end web development

PROJECTS

WEB DEVELOPMENT PROJECTS

Destiny Travel Website

- **Website URL:** <https://naveen93929.github.io/destiny-travel/>
- **Video:** <https://shorturl.at/8qXrR>
- Designed and developed a responsive travel website showcasing destinations and services.
- Technologies: HTML, CSS, JavaScript, Swiper for a dynamic and user-friendly interface.

Food Website

- **Website URL:** <https://naveen93929.github.io/Indian-foods/>
- **Video:** <https://shorturl.at/FLRN1>
- Created an interactive food-themed website highlighting diverse cuisines and recipes.
- Technologies: HTML, CSS and Bootstrap for an engaging and interactive experience.

Coffee Shop Website

- **Website URL:** <https://naveen93929.github.io/Coffee-corner/>
- **Video:** <https://shorturl.at/Qilg8>
- Developed a sleek and modern coffee shop website with dynamic features and animations.
- Technologies: HTML, CSS and JavaScript to enhance functionality and aesthetics.

HARDWARE PROJECTS

Advanced Robotic Arm with IoT Control

Duration: June 2024 – August 2024

- Designed and implemented an IoT-enabled robotic arm capable of remote operation and real-time data analysis.
- Leveraged Python and embedded systems to create control logic and ensure seamless functionality.

RF Energy Harvesting for Railway Track Monitoring

Duration: August 2022 – April 2023

- Designed a system to monitor railway track conditions using sensor tags and readers for enhanced safety and reliability.
- Contributed as the second team leader, ensuring smooth coordination and project execution.

IoT-Based Smart Parking System

Duration: February 2022 – July 2022

- Developed an automated smart parking system enabling users to locate available parking slots efficiently.
- Integrated IoT technology to streamline parking management and enhance user experience.

INTERNSHIPS

Research Associate Intern

Leap Robots, Hyderabad | November 2023 – April 2024

- Assisted in the development and refinement of robotic components using IoT and embedded systems.
- Contributed to enhancing the functionality and reliability of prototypes.

Cyber Security Intern

AICTE, Vijayawada | October 2021 – December 2021

- Identified and mitigated cybersecurity vulnerabilities in network infrastructure.
- Applied encryption techniques and ethical hacking skills to enhance system security.

CERTIFICATIONS

Junior Software Developer

Institution: IT-ITES Sector Skill Council, NASSCOM

Date: November 2023

Fundamentals of Digital Marketing

Institution: Google Digital Garage

Date: March 2023

Python Programming Master Class

Institution: Udemy

Date: January 2023

PROFILE LINKS

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