Vuppala Sai Naman

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Summary

Computer Science undergraduate with hands-on experience in developing scalable web applications and intelligent systems. Proven ability to reduce page load time, optimize backend performance, and build real-time AI tools. Proficient in C, Java, Python, and JavaScript with a strong foundation in frameworks like React, Node.js, and MongoDB.

Education

Indian Institute of Information Technology, Sri City   Sept 2023 – Present
B.Tech in Computer Science and Engineering
CGPA: 8.51 (till 2nd year)

Sri Chaitanya Junior College, Hyderabad   Jun 2021 – Apr 2023
Intermediate (MPC Stream)
Score: 97%

Technical Skills

Languages: C, Java, Python, JavaScript
Frontend: HTML, CSS, React, Next.js
Backend: Node.js, Express.js
Databases: MongoDB, MySQL
Libraries/Tools: Pandas, NumPy, Matplotlib, Seaborn, OpenCV, Git
Coursework: Data Structures, Operating Systems, DBMS, Web Development, Computer Vision, Computer Architecture

Experience

Full-Stack Developer Intern
CloudWorks (Remote)   Jun 2025 – August 2025

- Developed COM360 — a cloud-based service management platform using Next.js and React, reducing internal manual operations by 50%.
- Implemented server-side rendering with Next.js, decreasing page load time by 60% and increasing Google Page-Speed score from 45 to 85.
- Redesigned UI components with React, improving page responsiveness and user engagement metrics by 35%.
- Built RESTful APIs and optimized MySQL queries for real-time data sync, authentication, and transactional operations.
- Deployed on AWS EC2 with CI/CD via GitHub Actions, maintaining 99.9% uptime and supporting auto-deploy pipelines.

Technical Projects

Retail Electronic Sales Management System
GitHub: https://github.com/vsn20/ELECTROLAND

- Developed a web-based system to manage 200+ inventory items and log 500+ transactions/month across sales teams.
- Integrated secure user login, inventory updates, and dynamic dashboard analytics for real-time decision-making.
- Achieved 40% faster response time by refactoring backend logic with Node.js and Express.js.
- Designed robust MongoDB schemas for reliable sales and inventory tracking across multiple endpoints.
- **Tech Stack:** JavaScript | Node.js | Express.js | MongoDB

Real Time IOT Device Data Monitoring
GitHub: https://github.com/vsn20/REAL-TIME-MONITORING

- Developed a comprehensive real-time monitoring system for ingesting, storing, and visualizing data from a wide array of IoT devices, complete with a data simulator, a robust backend API, and a dynamic frontend dashboard.
- **Tech Stack:** Python | FastAPI | React.js | TimescaleDB | Docker | WebSocket

Hand Detection and Finger Counting System

- Created a gesture recognition system using OpenCV capable of real-time hand and finger detection with <50ms latency.
- Utilized convex hull and contour analysis to achieve 92% accuracy across various lighting and background conditions.
- Designed for applications in touchless interface control and assistive accessibility environments.
- **Tech Stack:** Python | OpenCV

Leadership & Activities

Student Academic Council, Class Representative, UG3, IIIT Sri City — Aug 2025 - Present
Contributed to strategic discussions on academic management, policy improvement, and student support systems. Collaborated with faculty members and student leaders to improve curriculum delivery and overall academic experience.

Marketing Team Member, Web3SSH 2025
Executed multi-platform campaigns for blockchain workshops and hackathons, increasing audience reach by 35%. Planned content and social media rollouts to promote Web3 summer school programs.

Accommodation Volunteer, Abhisarga 2025
Allocated and managed lodging for over 200 guests, ensuring smooth check-in experiences and real-time coordination across hospitality teams.

Hospitality Volunteer, Abhisarga 2024
Managed vendor coordination and guest logistics for a cultural festival attended by 1500+ students. Reduced onboarding time by 30% through improved scheduling processes.

Areas of Interest

Full-Stack Web Development
Artificial Intelligence and Machine Learning
Competitive Programming