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 (after 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 - Present

- 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 PageSpeed 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.
- **Technologies:** JavaScript | Node.js | Express.js | MongoDB

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.
- **Technologies:** Python | OpenCV

Leadership & Activities

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.

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.

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

Areas of Interest

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