A S Vittal

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GitHub / LinkedIn / Portfolio

Summary

Computer Science and Engineering undergraduate with hands-on experience in full stack web development using React, Flask, and Node.js. Completed a 2-month Full Stack Developer internship building a real-world fitness tracking application. Strong foundation in REST APIs, JWT authentication, databases, and responsive UI design, with a passion for building scalable and user-focused applications.

Education

SRM University AP - B Tech in CSE in Computer Science & Engineering
Aug 2023 – May 2027

• GPA: 7.46/10.00

Narayana Junior College, PCM
Jun 2021 – Apr 2023

- Percentage: 79.3/100

Narayana EM High School

- Percentage: 97/100

Skills

- Programming Languages: C, C++, Python
- Frontend: HTML, CSS, Responsive UI Design, React.js
- Backend: Flask,Node.js, Express.js, APIs, JWT Authentication
- Database: PostgreSQL
- Tools & Platforms: VS Code, Git, GitHub, Postman
- Core Concepts: Data Structures, DBMS, OOP, Web Development

Experience

Full Stack Developer Intern, (Remote)

Jun 2025 – Aug 2025

• Worked on a real-world fitness tracking web application (FitTrack) involving complete frontend and backend development
• Built responsive and interactive UI components using React
• Developed RESTful APIs using Flask and Node.js for user authentication, workout tracking, and progress monitoring
• Implemented JWT-based authentication for secure user access
• Integrated PostgreSQL for storing user data and workout records
• Gained hands-on experience with debugging, API testing, and collaborative development workflows.

Smart India Hackathon (SIH) – Participant

• Collaborated in a team-based national-level hackathon to develop innovative solutions for real-world problem statements
• Enhanced problem-solving, teamwork, time management, and rapid prototyping skills.

Projects

Health Tracking Website (TrackWell)

• Track-Well integrates essential web technologies such as HTML, CSS, Bootstrap, JavaScript, and PHP to create an attractive, interactive, and responsive user experience, while simulating backend logic for symptom analysis and local doctor recommendations.

Face Tilt Detection System

- The Python project uses computer vision techniques to detect a user's face and eyes in real time via webcam and determine whether the head is tilted to the left, right, or is straight. The detection is based on the relative position of the eyes and the slope of the line joining their centers.
- OpenCV: Primary computer vision library. NumPy: Essential for numerical processing. Haar Cascade classifiers: Used for face detection.

Movie Ticket Booking System

- Developed a database system to manage movie shows, bookings, and customer data efficiently.
- Designed ER diagrams and normalized relational schema up to 3NF.
  Implemented SQL queries and views for ticket booking, customer filtering, and data analysis.
- Applied referential integrity and relational constraints to ensure data consistency.