

Professional Summary

Third-year Computer Science student at IIIT Sri City with hands-on experience in full-stack development using **React.js**, **Node.js**, and **Python**. Strong foundation in **Data Structures & Algorithms** with proven ability to build production-ready applications. Passionate about backend systems, microservices architecture, and writing clean, maintainable code.

Technical Skills

Frontend: React.js, Next.js, JavaScript (ES6+), HTML5, CSS3, Responsive Design

Backend: Node.js, Express.js, Python, RESTful APIs, JWT Authentication

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

Databases: MongoDB, MySQL, PostgreSQL

Tools & Technologies: Git/GitHub, Docker (learning), Postman, VS Code, Linux

CS Fundamentals: Data Structures & Algorithms, OOP, DBMS, Operating Systems

Testing & Performance: Unit Testing, API Testing, Code Optimization, Performance Profiling

Education

Indian Institute of Information Technology, Sri City

Bachelor of Technology in Computer Science

Chittoor, Andhra Pradesh

August 2023 – Present (6th Semester)

- **Relevant Coursework:** Data Structures, Algorithms, Database Management, Operating Systems, Computer Networks, Web Technologies

Projects

Full-Stack Task Management Application | *React.js, Node.js, Express.js, MongoDB*

Oct 2024 – Dec 2024

- Developed a complete MERN stack application with user authentication, CRUD operations, and real-time updates
- Implemented **RESTful APIs** handling 15+ endpoints for user management, task operations, and analytics
- Built responsive UI with React hooks (useState, useEffect, useContext) and component-based architecture
- Integrated **JWT authentication** with refresh tokens, password hashing using bcrypt, and protected routes
- Designed MongoDB schemas with indexing for optimized query performance (40% faster response times)
- Deployed backend on Railway/Render with environment-based configuration management

Secure Authentication & Authorization System | *Node.js, Express.js, JWT*

Sep 2024 – Oct 2024

- Built production-grade authentication system with **JWT access/refresh token** mechanism
- Implemented role-based access control (RBAC) with admin, user, and guest permissions
- Added security features: password hashing (bcrypt), rate limiting, CORS configuration, input validation
- Created middleware for token verification, error handling, and request logging
- Wrote API documentation with example requests/responses for all authentication endpoints

E-Commerce Product Ranking Microservice | *Python, FastAPI, Pandas*

Jul 2025 – Aug 2025

- Designed microservice to rank products based on ratings, reviews, and sales analytics
- Processed and analyzed datasets with **10,000+ products** using Pandas for data preprocessing
- Built REST API endpoints returning paginated, sorted product lists with filtering capabilities
- Implemented caching strategy reducing response time by 60% for repeated queries
- Created comprehensive unit tests achieving 85% code coverage

Real-Time Chat Application | *React.js, Node.js, Socket.io*

May 2025– Jun 2025

- Built real-time messaging application supporting multiple chat rooms and private conversations
- Implemented **WebSocket connections** using Socket.io for bi-directional communication
- Added features: typing indicators, online status, message history, emoji support
- Designed scalable backend architecture handling concurrent connections and message broadcasting
- Created responsive UI with modern design principles and mobile-first approach

Machine Learning Model Deployment | *Python, Flask, Scikit-learn*

Mar 2025 – Apr 2025

- Trained classification model for predicting house prices with 87% accuracy
- Built Flask API for model serving with POST endpoints accepting JSON input
- Implemented data preprocessing pipeline for feature engineering and normalization
- Created prediction endpoint integrated with frontend for real-time predictions

Coding & Problem Solving

LeetCode: Solved 200+ problems (Easy: 100+, Medium: 80+, Hard: 20+)

GeeksforGeeks: Active problem solver with focus on DSA fundamentals

Core Strengths: Arrays, Linked Lists, Trees, Graphs, Dynamic Programming, Searching & Sorting

Participation: Online coding contests and hackathons

Key Strengths

Strong problem-solving with Data Structures & Algorithms | Experience with full development lifecycle | Quick learner - rapidly adapts to new technologies | Code quality focused | Team collaboration through Git workflows | Performance optimization and debugging skills