

# SAI KESHAV PALAKURTHI

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## Education

### SRM Institute of Science and Technology

BTech in Computer Science and Engineering — **Grade : 9.6 CGPA**

**August 2022 – April 2026**

Chennai, India

### Sri Chaitanya College

Secondary Education — **Grade : 97.5 %**

**June 2020 – April 2022**

Hyderabad, India

## Technical Skills

**Programming Languages** - Java, Python, C/C++, JavaScript, TypeScript

**Web Development** - HTML/CSS, React, Node JS, Express JS, Next JS, Tailwind CSS

**Machine Learning** - Natural Language Processing (NLP), Deep Learning, Neural Networks, PyTorch, TensorFlow, Scikit-learn, Data Preprocessing, Model Deployment

**Core Concepts** - Data Structures, Algorithms, OOP, Operating Systems, Database Management

**Version Control & DevOps** - Git, Docker, Kubernetes, GitHub

## Experience

### Arcon Tech Solutions

**June 2025 – Present**

SDET Intern

Mumbai, India

- Worked on Arcon PAM products, including Digital Vault and Password Vault, by developing and executing automated test cases using Playwright to validate secure access, credential rotation, vault access control, and session expiration workflows.
- Contributed to Arcon CI modules, such as Home Page and Auto Onboarding, by integrating Playwright test suites into CI pipelines, enabling continuous testing and faster detection of regressions across builds.
- Identified, documented, and reported functional and security bugs in PAM and CI modules, enhancing product reliability, compliance, and overall test coverage.

**Technologies Used:** Java, Playwright, Selenium, TestNG, Jenkins, UI Testing, API Testing

### Directorate of Student Affairs SRMIST

**Nov 2022 – April 2023**

Web Developer

Chennai, India

- Developed a dynamic and interactive cultural festival website, "Milan", utilizing the MERN stack to create a scalable architecture capable of handling over 10,000 concurrent users during peak hours.
- Integrated RESTful APIs seamlessly into the website to provide real-time event updates, registration data, and notifications, resulting in a 40% increase in user engagement and interactivity.
- Implemented robust security measures, including input validation and data handling protocols, to safeguard user information, ensuring data integrity and preventing data breaches.

**Technologies Used:** HTML, CSS, JavaScript, React.js, Node.js, MongoDB, Express.js

## Projects

### Dynamic Traffic Signal Optimization : 🔗 [Link](#) | Python, Machine Learning, Scikit-learn, SUMO, TraCI

- \* Designed and implemented a dynamic traffic light timer system using Random Forest and Polynomial Regression models to predict optimal green light durations at four-way intersections based on real-time traffic conditions.
- \* Integrated machine learning predictions into the SUMO (Simulation of Urban Mobility) platform via TraCI, dynamically adjusting signal timings and achieving a 96.67% directional accuracy and 87.23% overall accuracy.
- \* Validated system performance through SUMO simulations, demonstrating significant reductions in idle time, queue lengths, and congestion compared to traditional fixed-timer plans.

### News Application : 🔗 [Link](#) | React.js, Axios, React Router, React Icons, Moment.js, GNews API

- \* Developed a responsive React web application to fetch and display real-time news from GNews, integrating category-based and country-specific filters.
- \* Implemented real-time data updates and optimized API communication for performance and scalability in a client-server architecture.
- \* Utilized Unix-based environments for development and deployment testing.

### TalkATive Chat App : 🔗 [Link](#) | MERN Stack, Socket.io, JWT, bcrypt.js, Chakra UI, Axios, RESTful API, Mongoose

- \* Built a full-stack real-time chat application implementing secure authentication using JWT and bcrypt.js.
- \* Integrated WebSockets (Socket.io) over TCP connections to manage real-time messaging, notifications, and typing indicators across distributed clients.
- \* Addressed concurrent connection handling, session state management, and client-server interactions in a distributed environment.
- \* Developed RESTful APIs for user, message, and chat management with backend session handling on Node.js.

## Achievements

- Solved **500+** coding problems across platforms like GFG, HackerRank, and LeetCode, demonstrating strong problem-solving skills.
- Secured **First Place** at the prestigious **Hack Fusion 2024** organized by **NIT, Jamshedpur**. | [Link](#)
- Utilized innovative problem-solving techniques to achieve **First Place** in the **Code4You Hackathon 2023**. | [Link](#)
- Received a **100% Merit-Based Scholarship** at SRMIST for academic excellence, earning a full tuition fee waiver.