SAI KESHAV PALAKURTHI

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Education

SRM Institute of Science and Technology   **August 2022 − April 2026**
*BTech in Computer Science and Engineering — **Grade : 9.6 CGPA***   *Chennai, India*

Sri Chaitanya College   **June 2020 − April 2022**
*Secondary Education — **Grade : 97.5 %***   *Hyderabad, India*

Technical Skills

Programming Languages - Java, Python, C/C++, JavaScript, TypeScript
Backend Technologies - Django, Flask, REST APIs
Web Development - HTML/CSS, React, Node JS, Express JS, Next JS, Tailwind CSS
Databases - SQL, NoSQL (MongoDB)
Core Concepts - Data Structures, Algorithms, Object-Oriented Programming
Version Control & Collaboration - Git, GitHub

Experience

Arcon Tech Solutions   **June 2025 − Present**
Automation Test Intern   *Mumbai, India*
- Developed and executed automated test cases using Playwright for Arcon PAM modules such as Digital Vault and Password Vault, validating secure access and credential management workflows.
- Integrated Playwright test suites into CI pipelines to enable continuous testing and ensure quick detection of regressions across builds.
- Identified and reported bugs in key PAM functionalities including credential rotation, vault access control, and session expiration, contributing to improved product reliability and compliance.

Technologies Used: Java, Playwright, Selenium, TestNG, Jenkins

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 called GlobalNewsHub that utilizes the API to fetch and display real-time news from the GNews with category and country filters.
* Integrated category-based and country-specific news filters for personalized content and enabled real-time updates for the latest news, enhancing user engagement.
* Utilized React Router for smooth navigation and Axios for API requests and managed date formatting and handling with Momentjs.
* Ensured the application is mobile-friendly through responsive design techniques and maintained cross-browser compatibility.

TalkATive Chat App : ⭘ Link | *MERN Stack, Socket.io, JWT, bcrypt.js, Chakra UI, Axios, RESTful API, Mongoose*
* Developed a full-stack chat application to enable real-time communication, implementing secure user authentication and authorization using JWT and bcrypt.js.
* Integrated Socket.io for real-time messaging, including typing indicators and notifications, enhancing user interaction.
* Created responsive and interactive user interfaces with React.js and Chakra UI, managing state and context using React Context API for efficient handling of user sessions and chat data.
* Designed and implemented RESTful APIs for user registration, login, chat creation, and message handling using Express.js and MongoDB.

Achievements

- Solved **400+** 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.