Ala Sai Harsha

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SUMMARY

Detail-oriented and performance-driven Software Engineer with strong proficiency in Java, Spring Boot, and modern web technologies like React.js, Redux, and RESTful API development. Demonstrated expertise in building production-ready full-stack applications. Passionate about writing clean, maintainable code, solving real-world problems. Actively seeking opportunities to contribute to high-impact engineering teams.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python
Frontend Technologies: HTML, CSS, React.Js, Tailwind CSS
Backend Technologies: SpringBoot, NodeJs, ExpressJs,
DataBases: MongoDB, MySql
Web Services: REST, GraphQL
CS Fundamentals: SDLC, OOPs, OS Concepts, Data Structures & Algorithms
Additional Skills: Strong verbal and written communication, time management, collaboration, documentation

EDUCATION

VASIREDDY VENKATADRI INSTITUTE OF TECHNOLOGY — Guntur, Andhra Pradesh
B-Tech in Computer Science and Engineering — **2021 – 2025**

SIR CR REDDY PUBLIC SCHOOL — Eluru, Andhra Pradesh
Class XII,CBSE — **2019– 2021**

SIR CR REDDY PUBLIC SCHOOL — Eluru, Andhra Pradesh
Class X,CBSE — **2018– 2019**

PROJECTS

Habit Tracker – Pomodoro-Enhanced Productivity System   **May-2025**   **Github** ⬈
Tech Stack : Java 17, Spring Boot 3.3.2, React 19, Redux , REST APIs, Docker, H2, Maven,, Tailwind CSS
Impact: **Secure** and **scalable Url Shortener** with **real-time analytics tracking**

- **Developed a full-stack web application** for habit tracking with integrated Pomodoro timer, delivering modular, scalable, and secure architecture**.**
- Engineered backend using **Spring Boot**, **RESTful APIs**, **DTOs**, layered architecture (Controller, Service, Repository), and **global exception handling**.
- Enhanced security with Helmet, express-validator, and robust rate limiting, ensuring safe and reliable UI.
- Centralized error handling and strong state management prevent session leakage and guarantee data integrity across user sessions.

Live-Url-Shortener   **May-2025** **Deployment** ⬈
Tech Stack : React , NodeJs , Express , MongoDB , Mongoose , JWT , NanoID
Impact: **Secure** and **scalable Url Shortener** with **real-time analytics tracking**

- Developed a full-stack, **production-ready URL shortener** with secure JWT authentication, per-user data isolation, and real-time analytics**.**
- Implemented custom aliases, detailed **click tracking**, and a modern, responsive UI
- Enabled **GitHub-style contribution graph**, **automated habit logging**, and **streak tracking**, improving productivity visualization and UX.
- Applied **software engineering best practices**: component reuse, **lazy loading**, **memoization**, **clean code architecture**, and optimized API calls

FlavorFind - Smart Recipe Explorer   **Dec-2024** **Deployment** ⬈
Tech Stack: React.js, React Router, Tailwind CSS, Framer Motion, Axios
Impact: **Reduced API response time** by **50%** through **optimized API integration**, **caching strategies and improved UI/UX** accessibility score to **95+** and making the application **scalable** and **maintainable.**

- **Developed interactive components for real-time recipe search and navigation.**
- **Debouncing :** Implemented debounced API calls in the **search functionality** to **minimize unnecessary network requests.**
- **Caching:** Leveraged **client-side caching** (using useRef) to **reduce API response times by up to 50%,** **enhancing user experience.**
- Developed an **intuitive search experience** with an **auto-suggestion feature, dynamically displaying recipe suggestions as users type, improving search efficiency.**

CERTIFICATIONS

Machine Learning , ML by KTH, The Royal Institute Of Technology , Sweden   *link*

ACHIEVEMENTS

In Top 10 % of Teams SRM-AP 24hrs Hackathon   **March 2024**