

# Ala Sai Harsha

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## CAREER OBJECTIVE

- To Secure an entry-level Software Engineer role where i can apply my knowledge of Java , Mysql , ReactJS and Problem-Solving skills to build reliable software solutions while continuously and improve as a developer

## EDUCATION

**VASIREDDY VENKATADRI INSTITUTE OF TECHNOLOGY**

Guntur, Andhra Pradesh

**B-Tech Computer Science and Engineering**

2021–2025

**SIR CR REDDY PUBLIC SCHOOL**

Eluru, Andhra Pradesh

ClasXII , CBSE

2019–2021

## INTERNSHIP

**Software Developer Intern – Nuziveedu Seeds Limited**

**Hyderabad, India | July -December 2025**

- Been a part of team of where we Engineered a stateless RABC system (Spring Boot 3.2.5, JWT) with MD5-to-BCrypt migration for 100+ users , delivering 28 optimized REST APIs (143ms latency ) for Master Data modules with strict @PreAuthorize security.
- Achieved 100% endpoint coverage and reduced manual QA by 70% by designing a 14-user integration test hierarchy, backed by comprehensive flowchart analysis.

## TECHNICAL SKILLS

**Programming Languages:** Java, JavaScript.Python

**Frontend Technologies:** HTML, CSS, React.Js, Tailwind CSS

**Backend Technologies:** SpringBoot, NodeJs, ExpressJs,Hibernate/Spring JPA

**DataBases:** MongoDB, MySQL

**Web Services:** REST

**CS Fundamentals:** OOP, Data Structures & Algorithms, OS, SDLC

**Tools:** Docker, Maven, GitHub, Postman,IntelliJ/Eclipse, AI-tool ( Co-pilot)

## PROJECTS

**Habit Tracker – Pomodoro-Enhanced Productivity System**

**May 2025| [Github - Link](#)**

**Tech Stack : Java 17, Spring Boot 3.3.2, React 19, Redux , REST APIs, Docker, H2, Maven,, Tailwind CSS**

**Impact: Increased user productivity through intelligent habit logging, real-time visual analytics**

- Engineered integrated Pomodoro timer with custom React hooks supporting 1-480 minute configurable sessions, implementing browser tab countdown integration, automatic habit completion logging, and audio notifications.
- Implemented RESTful API with 5 core endpoints (habits CRUD, completion logging) and Redux Toolkit state management with normalized entity adapters, serving GitHub-style contribution graphs with yearly visualization and real-time streak tracking across responsive dark-theme UI.
- Enhanced security with Helmet, express-validator, and robust rate limiting, ensuring safe and reliable UI.

**Live-Url-Shortener**

**May-2025| [Deployment - Link](#)**

**Tech Stack : React , NodeJs , Express , MongoDB , Mongoose , JWT , Nanoid**

**Impact: Secure and scalable Url Shortener with real-time analytics tracking**

- Architected RESTful API with 8 endpoints following MVC pattern (register, login, shorten, redirect, list URLs, update, delete, analytics) implementing input validation, error handling middleware, and HTTP status code standards (201, 401, 404, 409, 500)
- Developed responsive dashboard UI using React 18 + TypeScript with Tailwind CSS utility classes, featuring animated transitions via Framer Motion, real-time QR code generation using qrcode library, and modal-based analytics and also custom alias support, URL expiration controls, and comprehensive error handling (duplicate key detection, validation errors) reducing unauthorized access and improving data integrity
- Built real-time analytics tracking system capturing click timestamps, device metadata, and referrer information stored in MongoDB arrays, enabling per-URL performance monitoring with React Query for optimized data fetching and caching strategy.
- Deployed this into my own subdomain <https://urlshortner.alasaiharsha.me/>