

# SWARNA RAJASEKHAR

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↗ Portfolio

## PROFESSIONAL SUMMARY

Computer Science undergraduate with strong expertise in MERN stack development and AI-based systems. Experienced in building scalable full-stack applications with JWT Authentication, REST APIs, and MongoDB. Passionate about developing high-performance, user-centric applications and solving real-world problems using modern technologies.

## EDUCATION

Rajiv Gandhi University Of Knowledge Technologies,Ongole

2023 – 2027

B.Tech - Computer Science and Engineering - **CGPA - 9.0**

Ongole, Andhra Pradesh

Rajiv Gandhi University Of Knowledge Technologies,Ongole

2021-2023

PUC - Pre University Course - **CGPA - 9.4**

Rk valley,Kadapa, Andhra Pradesh

## EXPERIENCE

Full Stack Developer Intern – Cognetix Technology

- Completed structured full-stack internship building 9 real-world applications covering frontend, backend, REST APIs, authentication, and database integration.
- Developed production-style systems including E-Commerce, Job Portal, Food Ordering App, Blog System, and API-based applications.
- Implemented JWT authentication, role-based access control, CRUD operations, and responsive UI following industry best practices.
- Delivered all projects using GitHub version control, API testing with Postman, and deployment-ready architectures following real-world development workflows.

**Internship Training:** Completed Full Stack Web Development Training From PentechAI Solutions.

**Team Lead:** Eshikshan (Full MERN stack Application)

**Team Lead:** Smart India Hackathon

**Team Lead:** Mini Project

## TECHNICAL SKILLS

**Languages:** Python, C, JavaScript (ES6+), Java

**Frontend:** React.js, Tailwind CSS , HTML5, CSS3

**Backend:** Node.js, Express.js, Next.js

**Databases:** MongoDB, MySQL

**Tools:** Git, GitHub, Docker, VS Code, Postman

**Deployment:** Vercel, Render, CI/CD

**State Management:** Redux

**Concepts:** JWT Authentication, REST APIs, MVC Architecture, OOP, Data Structures

## PROJECTS

E-Shikshan ↗ | Team Lead, MERN Stack, Tailwind CSS

Nov 2025

- Developed MERN e-learning platform supporting 300+ users, improving content access efficiency by 35% through optimized platform design.
- Designed and developed a scalable MERN-based e-learning platform supporting course enrollment, digital content delivery, quizzes, and role-based dashboards for Students, Instructors, Admins.
- Implemented advanced course discovery, AI-powered content search, digital lessons, quizzes, and real-time student progress tracking to enhance learning engagement.
- Enhanced an integrated career learning ecosystem within a MERN platform featuring hackathon management and AI resume builder.

## E-Commerce ↗ | MERN Stack, Tailwind CSS, JWT

- Built a full-stack E-Commerce web application using MERN stack (React, Node.js, Express, MongoDB) with secure user authentication and session handling, enabling secure user login, product browsing, and checkout flow.
- Implemented dynamic product catalog, shopping cart, and order management system with real-time price calculation, protected APIs, and responsive UI using Tailwind CSS.
- Architected secure API-driven backend services with optimized MongoDB schemas and role-based authorization..

## Food Ordering Application ↗ | MERN Stack, Tailwind CSS

April 2025

- Outlined a full-stack Online Food Ordering web application using MERN stack (React, Node.js, Express, MongoDB), enabling secure user login, menu browsing, cart management, and order placement.
- Applied real-time cart system, checkout workflow, and order tracking module with responsive Tailwind CSS UI and RESTful APIs for seamless user experience and performance.
- Designed scalable backend architecture for menu management, order processing, and user data security, incorporating role-based access control and optimized MongoDB schemas.

## Job Portal ↗ | MERN Stack, Tailwind CSS

April 2025

- Built a full-stack Job Portal web application using MERN stack (React, Node.js, Express, MongoDB) with protected API routes and role-based authorization, Employer, and Candidate workflows.
- Executed job posting, admin approval system, resume upload, and application tracking module with secure REST APIs and responsive Tailwind CSS interface.
- Created scalable backend architecture with role-based authorization, file handling, and MongoDB schema relationships to ensure data security, performance, and real-world hiring workflows.

## Blog Management System ↗ | MERN Stack, Tailwind CSS

April 2025

- Built a full-stack blogging platform with JWT authentication enabling users to create, edit, delete, and manage blog posts securely.
- REST APIs with MongoDB for content storage, role-based access, and responsive React dashboard interface.
- Planned scalable backend architecture supporting CRUD operations, user authentication, and performance optimization.

## Smart Curriculum Activity and Attendance App ↗ | Team Lead,MERN Stack, IDE - VS Code 2025

- Stated precisely a smart curriculum management system that allows teachers to create, edit, and organize course modules, weekly plans, and learning outcomes.
- Enforced a digital attendance system with real-time student check-in, automatic record updates, and analytics for daily, weekly, and monthly attendance trends.
- Utilized backend APIs (Node.js + Express + MongoDB) for secure data storage, efficient retrieval, and scalable performance.

For More Projects visit my Portfolio ↗ [Portfolio](#)

## CERTIFICATIONS

- Full Stack Web Development Training From - PentechAI solutions
- Internship on Python Bootcamp From - PentechAI solutions
- Canva Design- PentechAI

## INTERESTS

- Web Development (MERN / Full-Stack)
- Artificial Intelligence Machine Learning

## Problem Solving

- Strong in DSA,OOP,DBMS,OS
- Solved coding problems on LeetCode/HackerRank