

Rakesh Yemineni

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Objective

Results-oriented Full-Stack Developer and Computer Science undergraduate with strong expertise in Java, Spring Boot, React.js, and RESTful API design. Passionate about building scalable applications and AI-driven solutions, with a solid foundation in Data Structures, Algorithms, and OOP. Seeking opportunities to contribute to end-to-end product development lifecycles.

Education

Parul University – Vadodara, Gujarat

Aug 2023 – June 2027

Bachelor of Technology in Computer Science and Engineering (Cloud Computing)

CGPA: 7.88 / 10.00

Achievements: Awarded **25% Merit Scholarship** for all academic years based on academic performance

SR Junior College – Vijayawada, Andhra Pradesh

June 2021 – April 2023

Intermediate (Science – MPC Stream)

Percentage: 93.9 / 100

Projects

SKYLINE: Airline Management System | Spring Boot, React.js, MySQL

- Engineered a robust Spring Boot backend implementing **JWT authentication** and **Role-Based Access Control (RBAC)** to secure REST APIs and manage user sessions.
- Developed complex server-side logic for flight scheduling, ticket booking and automated **PDF ticket generation**.
- Designed and optimized RESTful endpoints to handle high-volume **CRUD operations** for flights and airports, ensuring data integrity within the MySQL database.

AI-Powered Smart Farmer Companion | Python, FastAPI, React.js, PostgreSQL, Machine Learning

- Developed a **full-stack** agricultural solution using **FastAPI** and **PostgreSQL** to efficiently manage crop data, soil analysis, and environmental datasets.
- Built an interactive **React.js dashboard** for visualizing real-time farm analytics and yield predictions to improve user engagement.
- Integrated **Machine Learning models** for disease detection and crop yield optimization, delivering actionable AI-driven insights directly to the user.

ShelfCam: Edge AI Shelf Monitoring System | PyTorch, YOLOv8, Python, React.js, FastAPI

- Built a **full-stack** Edge AI system using **YOLOv8**, **FastAPI**, and **React.js** to detect real-time stockouts and planogram violations.
- Implemented automated restocking alerts and a task management dashboard, streamlining staff workflows and reducing inventory delays.

Technical Skills

Languages: Java, Python, JavaScript, C, C++, SQL, HTML, CSS

Frameworks & Libraries: Spring Boot, React.js, Node.js, FastAPI, Flask, PyTorch, Bootstrap

Databases: MySQL, PostgreSQL, MongoDB, SQLite

Tools & Platforms: Git, GitHub, AWS, Linux

Core Concepts: Data Structures & Algorithms (DSA), OOP, DBMS, Operating Systems, RESTful APIs, Generative AI, SOLID Principles, Authentication (JWT)

Soft Skills: Communication, Leadership, Team Collaboration, Adaptability

Achievements & Certifications

- Java, Python & Data Structures and Algorithms Certification** – Smart Interviews
- Participated in **Walmart Sparkathon 2025 & Finalist in Internal Hackathon for SIH** among 750+ teams
- Rated 1650+ & Solved 400+ problems on **LeetCode**, 2 star coder in **Codechef** and 5 star in Java on **HackerRank**