

# 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**