

# Rutvi Rathod

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## Technical Skills

Languages: JavaScript, Java, Python

Framework: Springboot, Langchain, Flask, Django, Nginx

Database: PostgreSQL, MongoDB, Pinecone

Cloud: Microsoft Azure, AWS, Docker, Kubernetes

Frontend: React, HTML, CSS, Next.js, Nx.js

Backend: NodeJS, Fast API, RestAPI, GQL

Developer Tools: Visual Studio Code, Jupyter Notebook, Tableau, PyCharm, Git, Agentic AI, MCP server, Monorepo Architectures

## Education

Chhotubhai Gopalbhai Patel Institute of Technology

June 2020 - May 2024

Bachelor of Science in Software Engineering

Surat, Gujarat

## Experience

Software Engineer

July 2025 - Present

Freelance

AI-Powered Document Q&A System (Jun 2025 - Present)

• **Tech Stack:** Python, LangChain, OpenAI API, Pinecone, FastAPI, Asyncio, Docker, CI/CD, Pytest

• Developed and deployed an AI-driven document Q&A platform enabling natural language queries on large-scale data. Integrated LangChain with OpenAI embeddings and Pinecone for context-aware retrieval.

• Optimised retrieval pipeline for scalability and sub-second response time.

• Designed modular backend architecture for easy integration and future LLM upgrades.

• **Impact:** Built and deployed an AI-powered document Q&A system using Python, LangChain, OpenAI, and Pinecone; optimised async pipelines to cut latency by 70% and ensured reliability with CI/CD and automated testing.

Digital Business Card App (Sep 2025 - Oct 2025)

• **Tech stack:** React, Next.js, FastAPI, PostgreSQL, Redis, Docker.

• Created a full-stack web application for digital business cards with real-time profile sharing via QR code

• Implemented user authentication, photo upload, and QR-based profile sharing.

• Designed a responsive, mobile-first UI with customizable themes and secure backend APIs.

Software Engineering Intern

Dec 2023 - June 2024

Ridaro Inc

• Developed and maintained scalable web applications using Java (Spring Boot) for backend services and React for frontend interfaces, enhancing application reliability, performance, and user experience.

• Designed and implemented RESTful APIs, integrating with React front-end applications for real-time user interactions.

• Built secure authentication systems featuring OTP verification and face recognition, enhancing user security and simplifying login processes.

## Projects

### Attendance System Using Face Recognition

Dec 2023 - June 2024

**Tech Stack:** Springboot, Python, Django, FastAPI, PostgreSQL, AWS

• Developed an innovative face recognition-based attendance system leveraging Python libraries for facial data processing and analysis.

• Built real-time APIs using FastAPI to enable high-performance facial recognition and seamless data handling.

• Designed secure user authentication workflows and face enrollment processes to ensure accurate and reliable attendance tracking.

• Integrated the system with external cameras and devices, enabling real-time attendance monitoring across multiple locations.

• Optimised the application for scalability, supporting concurrent user operations and large-scale data storage using PostgreSQL and AWS services.

• **Impact:** Delivered a cutting-edge attendance solution that enhances operational efficiency and eliminates manual errors. The system provides organisations with a scalable, secure, and automated method for tracking attendance, reducing administrative workload, and improving accuracy.

### Wedding App

June 2024 - Sep 2024

**Tech Stack:** Spring Boot, React, Node.js, HTML, CSS, AWS, Docker

• Developed a responsive web application for wedding planning, featuring guest list management, event scheduling, and dynamic itineraries.

• Designed and implemented a photo and video gallery module allowing users to upload, organise, and manage media by event/function.

• Enabled advanced media functionalities, including downloading, rotating, zooming, sharing, and marking items as favourites.

• Built secure server-side functionalities and RESTful APIs for efficient data management and user authentication.

• Deployed the application on AWS using Docker for scalability, reliability, and seamless performance

• **Impact:** Delivered a versatile platform that simplifies wedding planning, offering users an intuitive and feature-rich solution to effectively manage their events and media.