

# YASH KARTHIYA

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## PROFILE

Computer Engineering undergraduate focused on backend systems and applied AI, with hands-on experience building RESTful APIs, RAG-based applications, and full-stack projects.

## EDUCATION

### Dharmsinh Desai University

Bachelor of Technology in Computer Engineering

CPI: 8.29

Nadiad, Gujarat

Aug 2023 – May 2027

Relevant Courses: Data Structures & Algorithms, DBMS, Operating Systems, Machine Learning, Computer Networks

## TECHNICAL SKILLS

**Languages:** Java, Python (AI/ML), C#, JavaScript

**Frameworks/Backend:** Spring Boot, Hibernate, Django, Entity Framework Core, RESTful APIs

**Frontend & Mobile:** React, Flutter

**Databases:** SQL, MongoDB (NoSQL), PostgreSQL

**Tools & Other:** Linux, Firebase, Debugging & Troubleshooting, Version Control (Git)

## HACKATHONS & EVENTS

### DUHacks 5.0

2026

*Project: Food Label AI Scanner*

- Built an AI-based system to scan packaged food labels and explain ingredients in plain English using NLP and rule-based classification.
- Implemented allergen detection and a Red/Yellow/Green health scoring system based on ingredient composition; tested the system on 200+ sample products for usability and consistency.

### Holboxai Hackathon

2025

*Project: NeuroHire*

- Developed an OCR-to-LLM resume screening pipeline to extract text, summarize profiles, and generate candidate scores from resume data.
- Automated resume parsing and ranking for 100+ sample resumes, enabling faster shortlisting and comparative evaluation during hackathon testing.

### Winter Spark: Deploy Your Career

2025

*Cloud Deployment Workshop*

- Deployed a cloud-hosted to-do application on AWS using EC2, Lambda, and S3, gaining hands-on experience with cloud-based application deployment.
- Implemented CRUD functionality and basic monitoring, validating deployment stability and responsiveness under simulated usage scenarios.

## PROJECTS

**CollegeInfo-Agent** | *FastAPI, React, ChromaDB, LangChain*

[github.com/.../College-Info-Assistant](https://github.com/.../College-Info-Assistant)

- Built an AI-powered academic assistant using Retrieval-Augmented Generation (RAG) to answer student queries from a corpus of 500+ college documents.
- Achieved average query response times of 2 seconds in local testing and implemented role-based access to support multi-college document management and isolation.

**Shop/Stock Management System** | *Spring Boot, Java 17, PostgreSQL*

[github.com/.../shop-management-system](https://github.com/.../shop-management-system)

- Developed a RESTful inventory management API for handling products, suppliers, and stock levels across 500+ SKUs.
- Integrated Spring Security with role-based authorization and implemented automated low-stock alerts, validating system behavior using simulated inventory changes.

**Skill-Swap** | *MERN Stack, WebRTC, Socket.io*

[github.com/NotYash1066/Skill-Swap](https://github.com/NotYash1066/Skill-Swap)

- Built a peer-to-peer skill exchange platform featuring real-time chat and video communication using WebRTC and Socket.io.
- Implemented JWT-based authentication and collaborative whiteboard features; tested real-time functionality with multiple concurrent users during development.

## CERTIFICATES

**Winterspark: Deploy Your Career**

[drive.google.com/file/d/...](https://drive.google.com/file/d/...)