

# Begari Roopak Sai

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## Skills

**Languages:** Java, Python, JavaScript

**Frontend:** React, HTML, CSS

**Backend:** Node.js, Express.js, REST APIs

**Databases:** PostgreSQL, MongoDB, MySQL

**Tools:** Docker, Git, Postman

**ML / Data:** Pandas, NumPy, Scikit-learn

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## Projects

### RAG Chat Application (PDF Question Answering System)

**Node.js, Express, React (Vite), Google Gemini API, ChromaDB, Docker**

- Built a Dockerized RAG system for querying PDFs using semantic search and LLM-based answer generation.
  - Implemented PDF ingestion, vector embedding, retrieval, and context-grounded responses using Google Gemini and ChromaDB.
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### Job Tracker API

**Node.js, Express, PostgreSQL, Sequelize, Docker**

- Designed and implemented a **RESTful backend API** for tracking job applications.
  - Implemented **JWT-based authentication**, protected routes, and user-scoped CRUD operations.
  - Modeled relational data using **Sequelize ORM** with explicit database migrations.
  - Containerized the API and PostgreSQL database using **Docker Compose** following production-style practices.
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### Movie Recommendation System

**Python, Pandas, Scikit-learn**

- Built a content-based recommendation system using similarity metrics on the MovieLens dataset.
  - Engineered feature vectors from genres and user ratings to generate personalized recommendations.
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## Education

**Lovely Professional University**, Punjab

2022 – Present

B. Tech in Computer Science and Engineering | **CGPA: 8.1**

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## Certifications

- IBM Machine Learning Professional Certificate – Coursera
  - Full Stack Open – University of Helsinki (In Progress)
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## Achievements

- Solved **150+ DSA problems** on LeetCode; earned 100-Day Streak badge
- Participated in a **12-hour CTF** covering cybersecurity and CS challenges
- Open-source contributor during **Hacktoberfest (GDSC LPU)**