

# Pranav Kumar

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## Profile Summary

Backend developer specializing in API architecture, authentication, and scalable deployments using Node.js, FastAPI, PostgreSQL, and Docker. Built production-grade systems including TheApix streaming backend and RAG chatbot services.

## Education

<b>Chandigarh University</b> , Bachelor of Engineering (B.E.) in Computer Science	Sept 2022 – May 2026
• Pursuing undergraduate studies with major in Computer Science	

**Devarshaly Vidyaapeeth**, Senior Secondary (Intermediate) 2020 – 2022

- Completed senior secondary education with specialization in Science (Physics, Chemistry, Mathematics).

## Internship Experience

<b>GradGuide</b>   <i>LLM Developer Intern (Backend)</i>	May 2025 – Aug 2025
• Developed a RAG-based chatbot API using <b>FastAPI</b> , enabling context-aware conversational responses.	

- Built a recommendation engine that generated personalized outputs based on user profile details.
- Handled deployment and storage on **Google Cloud Platform (GCP)** for scalable hosting and data management.
- Designed and implemented backend services for the company's internal **CRM system**.

## Projects

<b>TheApix — Streaming Platform Backend</b>	PlayStore Link
• Built an automated FFmpeg pipeline in Node.js to convert raw uploads into adaptive HLS (m3u8) streams, reducing manual processing time by 70%.	
• Integrated Razorpay with JWT refresh-token rotation to automate 48-hour rental access and secure playback authorization.	
• Designed a modular MongoDB schema for multi-season content and timestamp-based watch tracking to optimize read performance for streaming clients.	

**RAG Document Assistant — Retrieval-Augmented QA System** GitHub

- Developed an AI-powered document assistant using FastAPI and Gemini 2.5 Flash with consistent sub-2s response times (local + cloud tested).
- Implemented semantic search using PostgreSQL (pgvector) and Sentence Transformer embeddings to retrieve relevant context from large text corpora.
- Built secure document ingestion with chunking + overlap strategy and JWT-based multi-user isolation to maintain context integrity and access control.

## Skills

**Languages & Frameworks:** Node.js, JavaScript, Python, FastAPI, Django, Express.js

**Databases & Cloud:** MongoDB, PostgreSQL, Firebase, GCP, Docker

**Tools & Backend Tech:** Git/GitHub, RESTful APIs, JWT, FFmpeg, Razorpay

**Soft Skills:** Problem Solving, Team Collaboration, Technical Documentation

## Extracurricular Activities

- SIH Finalist:** Built Backend for “Electrade” smart meter energy trading prototype.
- BFCET 1.0 Winner:** Built Backend for “TeamFinder” student project matching app.