

# Satvik Tandon

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## SUMMARY

Backend-focused CSE student building scalable services, automation tools, and AI-powered developer utilities. Skilled in React, Node.js, Next.js, FastAPI, Docker, and RAG workflows. Previously worked as a Backend Engineering Intern at Syndie.io, contributing to APIs, system architecture, and debugging in production.

## SKILLS

**Backend:** Node.js, Express.js, Hono, FastAPI, Prisma, PostgreSQL, MongoDB, Redis

**Frontend:** React, Next.js, TypeScript, Tailwind CSS

**DevOps:** Docker, Vercel, Cloudflare Workers, GCP

**AI/Tools:** RAG, Vector DBs, Genkit, Gemini

**Other:** REST APIs, System Design Basics, Microservices

## WORK EXPERIENCE

**Syndie.io** Jun 2025 - Sep 2025

*Backend Engineer Intern*

- Developed and maintained backend APIs and data models for the company's admin platform using Next.js & NestJS, improving scalability and developer usability.
- Built modular, testable backend components with clear technical documentation, ensuring maintainability across teams.
- Designed and implemented OAuth authentication flows and integrated external automation tools (Zapier, n8n, Make.com) with in-house APIs.
- Implemented core backend features such as global search and internal data workflows, enhancing user experience and improving overall system efficiency.

## PROJECTS

**Tancode - AI coding Agent** [Github](#) Oct 2025 - Present

*Technologies: React, TailwindCSS, TypeScript, Node.js, RAG, Vector DB, Gemini*

- Built a full-stack AI coding agent enabling one-shot web application generation using Retrieval-Augmented Generation (RAG).
- Built the backend with Node.js and TypeScript, integrating Qdrant for vector storage and Google Gemini for embeddings.
- Created an interactive user interface for file operations using React, Vite, and Tailwind CSS.
- Managed Qdrant with Docker to ensure efficient vector search capabilities.

**ChatGPT-to-PDF - Export ChatGPT Conversations as PDFs** [chatgpt-to-pdf](#) Dec 2024

*Technologies: Puppeteer, Node.js, Docker*

- Created a web-based tool that converts ChatGPT chats into well-formatted PDF documents.
- Utilized Puppeteer and Node.js, with Docker for containerized deployment.
- Designed for efficiency and ease of use, enabling users to export chats with a single click.

**AI-Powered 2D Animation Generator** [Github](#) May 2025 - Now

*Technologies: FastAPI, Python, Manim, Gemini, React, Node.js, Docker*

- Developed a Python microservice using FastAPI to convert user prompts into executable Manim animation scripts.
- Integrated Gemini 2.5 Pro for generating and iteratively refining Manim code based on user instructions.
- Automated video rendering using Manim Community Edition, ensuring single-script, 2D animated outputs.
- Building a v2 with async workflow utilizing, Docker, Workers, Redis and AWS S3

## ACHIEVEMENTS

- Top-9 in Design Contest - DVCON 2024 amongst 200+ teams in India
- Head Coordinator, Chess (ALFRESCO 2025) - Secured 2nd Place

## EDUCATION

**Bachelor of Technology in Computer Science and Engineering** 2022-2026

*Vivekananda Institute of Professional Studies, CGPA: 8.35 (till 7th sem)*

**Class 12th** 2021-2022

*Ryan International School, Percentage: 87%*

**Class 10th** 2019-2020

*Ryan International School, Percentage: 93%*