

Aarav Mithrani

- Software Engineer (Full-stack) - building AI-driven products
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Technical Skills

Languages: JavaScript, TypeScript, Python, C++, HTML5, CSS3, SQL

Frontend: React, Next.js, Tailwind CSS, shadcn/ui, Chart.js, Chrome Extension APIs, Vite

Backend: Node.js, Express, FastAPI, REST APIs, OAuth 2.0, Webhooks

Cloud/Tools: Git, GitHub, Vercel, Figma, Postman Better Auth, Inngest, Finnhub

Concepts: Full-Stack Dev, CRUD, API Integration, CI/CD, Prompt Engineering

Education

Birla Institute of Technology, Mesra

2022 – 2026

Bachelor of Technology in Computer Science

Experience

Research Intern — AI/NLP & Computational Poetics

May 2025– July 2025

Birla Institute of Technology, Mesra, Ranchi, India

- Built and evaluated NLP models for poetic structure classification (85%+ accuracy) using linguistic features and rule-based logic.
- Processed 10k+ structured poetic samples with Python, NumPy, scikit-learn for stylistic pattern recognition.
- Applied prompt engineering, algorithmic design, and API integration in research at the intersection of language and computing.

Technical Projects

Signalist – AI-Powered Stock Market Analytics Platform

Next.js, TypeScript, Tailwind CSS, shadcn, Better Auth, Inngest, MongoDB, Finnhub

- Built a full-stack real-time stock analytics platform tracking **5,000+ stocks**, featuring live prices, interactive charts, watchlists, and company insights using Finnhub APIs
- Automated **10+ event-driven workflows** with Inngest for price alerts, AI-generated daily market digests, earnings notifications, and real-time email alerts via Nodemailer.

YouTube Focus Mode – Chrome Extension

JavaScript, Tailwind, Chrome Extension APIs, Manifest v3, LocalStorage

- Distraction-blocker that removes Shorts/comments; strictness levels, focus scheduling, dark mode, reminders, keyboard shortcuts.
- Client-side privacy with chrome.storage.local; 50+ daily users.

Pagemint – AI Website Generator

React, TypeScript, Node.js, Express, Claude API, Tailwind, Vercel

- Generated semantic sites from prompts (90%+ layout match); Notion-style editor with 20+ drag-and-drop blocks and real-time preview.
- Full-stack deployment with CI/CD on Vercel; seamless domain linking and exports.

Achievements

Log Kya Kahenge: Built India's sassiest newsletter (100+ subs, GPT + Airtable + storytelling).

Mood Indigo 2024: 2nd place, IIT Bombay Drama Fest; led 25-member team.

JEE Mains 2022: AIR 16,710 out of 2.2M+ candidates.

Leadership

Joint President — Ehsaas Dramatic Society

Apr 2025 – Present

Directed 6+ productions; hosted 300+ attendees; led 10+ college collaborations; mentored 15+ juniors.

Relevant Coursework

Operating Systems; Data Structures & Algorithms; DBMS; Computer Networks; Artificial Intelligence; Theory of Computation; Compiler Design; Software Engineering