

Anurag Kumar Pathak

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SUMMARY

Computer Science student with strong foundations in algorithms, data structures, and system design. Skilled in building scalable full-stack applications using modern frameworks (Next.js, FastAPI, Node.js) and integrating AI/ML capabilities (Gemini, OpenAI). Passionate about clean architecture, performance optimization, and real-world engineering challenges.

EDUCATION

VIT Bhopal University	8.48/10
<i>Bachelor of Technology in Computer Science and Engineering</i>	<i>Aug 2022 – Present</i>
U P +2 High School Lawahikala	88%
<i>Intermediate</i>	<i>Aug 2019 – May 2021</i>
Aditya Birla Public School	96.8%
<i>High School</i>	<i>Aug 2017 – May 2019</i>

TECHNICAL SKILLS

Programming Languages: Java, Python, C++, SQL, JavaScript, TypeScript, HTML, CSS
Technologies and Frameworks: React, Next.js, Node.js, Express.js, MongoDB, PostgreSQL, FastAPI, Tailwind
Tools & Platforms: Git/GitHub, Docker, AWS, Google Gemini AI, OpenAI, Replicate
Core CS Concepts: Data Structures, Algorithms, Object-Oriented Programming, Operating Systems, Database Management System, Computer Networks

PROJECTS

Shopiz <i>Next.js, FastAPI, ChromaDB, Google Gemini</i>	<i>Apr 2025 – Present</i>
<ul style="list-style-type: none">– Built an end-to-end AI recommendation engine for product suggestions based on user behavior.– Integrated ChromaDB for fast vector similarity searches with caching for high performance.– Architected modular frontend/backend with SQLite and synthetic data generator.	
Arogyam <i>Next.js, MongoDB, Clerk, Stripe, Google Gemini</i>	<i>Feb 2025 – Apr 2025</i>
<ul style="list-style-type: none">– Engineered a holistic health monitoring platform, enabling users to track symptoms/medications, analyze mental wellness, and visualize health trends through responsive dashboards.– Integrated Google Gemini for AI health insights and chat, with Clerk for secure auth.– Deployed on Vercel with MongoDB, Prisma ORM, Stripe payments, and serverless functions	
BirdAI <i>Next.js, Clerk, OpenAI, Replicate, Shadcn UI</i>	<i>Aug 2023 – Oct 2023</i>
<ul style="list-style-type: none">– Designed and developed a modular SaaS prototype for multi-modal AI content generation (text, images, video, music, code) using OpenAI and Replicate integration.– Implemented Clerk auth, dynamic routes, and responsive UI with Shadcn and sidebar layout.– Used Zod for input validation and designed scalable, reusable content workflows.	

CERTIFICATIONS

MongoDB Associate Database Administrator	<i>May 2025</i>
Ethnus AWS Solutions Architect - Associate Certification	<i>Apr 2025</i>
Lyft - Back-End Engineering Job Simulation	<i>Jan 2024</i>

EXTRACURRICULAR ACTIVITIES

Completed **Summer of Bitcoin 2025** bootcamp on Bitcoin, BIPs, and OSS workflows.

Contributed to **Winter of Code 2024**, **Hacktoberfest 2023**, and other OSS programs.

Built team projects at **MLH Global Hack Week** and university hackathons.

Competitive Programming: Codeforces 1231; 250+ problems solved on CF, LeetCode, AtCoder.