

Sudhanshu Pandey

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech Computer Science and Engineering	Birla Institute of Technology, Mesra	8.60 (Absolute)	2022-Present
Senior Secondary	St. Xaviers School Jaipur	89.8%	2021

TECHNICAL SKILLS

Languages: C++ , Javascript/Typescript, python, SQL

Frameworks & Libraries: Node.js, Express.js, React.js, Next.js, fast API

Databases & Infrastructure: PostgreSQL, MongoDB, Docker, AWS(S3 Bucket), Git, CI/CD

Core Concepts: System Design, Operating System, DBMS, Computer Networks, OOPS(JAVA)

Interpersonal Skills: Teamwork, Critical Thinking, Leadership, Problem Solving, Fast Learner

Problem Solving (DSA and CTF): [LeetCode](#) , [Codeforces](#), [Geeks for Geeks](#)

WORK EXPERIENCE

Texas Instruments

Software Development Intern

Bengaluru, India

May 2025 - July 2025

- Developed an end-to-end Laptop Management Distribution system for Texas Instruments employees, automating 100 percent of manual request workflows. Reduced manual processing time by **80%**, saving over 300 staff hours annually and cutting support costs by **25%**.
- Migrated a physiotherapist consultant website from **PERL** to **NextJS** and automating the entire workflow by using **Cron Jobs**. Implemented Caching and followed **stateless architecture** to increase scalability.
- Built an Election Feedback Summarizer feature which reduced the manual effort of HRs and senior management by **800-900 hrs**.

WorldQuant BRAIN

Research Consultant

Remote

Dec 2024- March 2025

- Conducted quantitative research and analysis to develop predictive algorithms for financial markets.
- Designed and optimized models to forecast fluctuations and movements across diverse financial instruments.
- Pioneered algorithmic trading strategy utilizing machine learning and statistical analysis, resulting in a 15 percent decrease in portfolio volatility and exceeding benchmark returns by 8 percent over a 12-month period

PROJECTS

Insta Chat | Nextjs, Node JS, Tailwind, Instagram API, Prisma ORM, Postgres, Webhooks  

- Developed an end-to-end automation tool for Instagram Business accounts, enabling automated direct messages DMs and comment responses. Currently used by Instagram buisness account having a reach of 200k.
- Used **Webhooks set up to handle real-time events** from Instagram, enabling immediate responses to user interactions. Integrated OpenAI API to provide intelligent and context-aware chat responses, enhancing user communication.
- Generated **20k** by selling it to a buisness Instagram handler. Automated **10,000+ DMs** and comment responses per month for Instagram Business accounts, improving response speed by **90%**.

Screenly | Next.js, Node.js, Express.js, Prisma ORM, TypeScript, Electron.js, OpenAI API, AWS S3, Stripe  

- Developed a full-stack SAAS solution for screen and webcam recording. Integrated OpenAI Whisper for AI-powered speech-to-text transcription and GPT-based summarization. Deployed as a cross-platform **Electron.js desktop application**. Stored video directly in AWS S3 allowing **99.9% video availability**.
- Architected scalable, microservices-style backend using Node.js, Express.js and Socket.io to enable real-time video capture and streaming. Built with TypeScript and Prisma ORM on Neon-hosted PostgreSQL, enforced Zod schema validation. Implemented secure authentication via Clerk, object storage on **AWS S3**, and subscription **billing through Stripe**.
- Using custom hooks to reduce number of API calls **reducing API calls by 80%**. Integrated OpenAI Whisper achieving **95%+ transcription accuracy** and GPT summaries, reducing content review time by **8x** for end-users.

ACHIEVEMENTS

- Expert** in Codeforces with **rating 1622**, secured Rank 1685 in Codeforces DIV 2
- 1000+ questions solved on all the coding platforms.
- Got G.P. Birla scholarship out of 5000 students(Top 0.1%)
- Secured 1st position in 24-hr IEEE hackathon organised by college
- State level badminton player. Cleared C.A.T.C. 'A' and 'B' camp . NCC 'A' certificate holder

LEADERSHIP EXPERIENCE

- Tech Lead (Software)**, ECESOC, BIT Mesra
- General Secretary**, IEEE, BIT Mesra