

Jaskaran Singh Bhalla

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Education

Indian Institute of Technology Delhi, Bachelors in Technology [CGPA : 8.3] Nov 2021 – May 2025

- **Minor Degree in Computer Science: Completed 23/20 credits with a 9 GPA** in Dept. of Computer Science.
- **Minor Degree in Entrepreneurship: Completed 24/20 credits with a 10 GPA** in Dept. of Management Studies.

Scholastic Achievements

- **Department Rank:** Consistently ranked in **Top 4 out of 120 students** for 7 semesters under Department.
- **Letters of Recommendation:** Appreciated by Prof. Abhijit Majumdar and Prof. Sohel Rana for Problem-solving abilities.
- **JEE 2021:** Achieved a 99 percentile in JEE Mains among 1.1 million aspirants and ranked in the Top 1% in JEE Adv.
- **Academic Excellence Class XII:** Secured overall **1st position** in school and was the top performer in the Science Stream.

Experience

Full Stack Developer, Crowwd SRL – Brussels, Belgium May 2024 – July 2024

- Engineered a finance-focused Social Media Platform using Next.js, Prisma, Tailwind CSS, Redis and PostgreSQL.
- Optimised performance with SWR caching, Mutation, and Optimistic UI, reducing response time by 50% enhancing UX.
- Designed a scalable Notification system with an event-driven architecture, integrating mentions and hashtags on platform.
- Developed Python AWS Lambda function using Beautiful-soup, Pandas for automating Stock Splits through CRON job.
- Re-engineered the ML-powered recommended feed using K-means clustering, reducing computation time by 25%.
- Designed robust data pipeline using Lang-chain, ScrapegraphAI processing 1000+ articles analysing stock sentiment.

Projects

Personalized Professional Web Portfolio  Github

- Developed a Responsive personal website showcasing a portfolio, skills, interests, and professional achievements.
- Deployed website on Vercel platform, Hosted Projects on custom subdomains and Firebase for enhanced organization.

Research Internship Portal  Github

- Architected React-based dashboard, optimizing internship process for 1300+ students across 20 global universities.
- Implemented Robust Authentication, integrated 20+ RESTful APIs using Axios, enhancing security and user experience.

Decentralized Exchange Simulator  Github

- Architected Decentralized Exchange prototype for ERC20 tokens, deploying Solidity Smart Contracts on Polygon Amoy.
- Engineered responsive Front-end with Web3.js, enabling Real-time interaction with Smart contracts using Metamask.

Sport Facility & Logistics Management Platform  Github

- Developed Next.js app with hour tracking, role-based access control, and Complex Booking System serving 2000+ users.
- Developed Notion-integrated feedback system increasing user satisfaction and streamlining administrative workflows.

Financial Exchange: Real-Time Order Matching  Github

- Designed scalable micro-services Trading System with API Engine, Web-socket services, using Redis messaging.
- Engineered Real-time Order Matching engine processing large transactions per second with low latency.

Blogging Website  Github

- Created a blogging website using Hono Serverless backend, Prisma client, frontend in ReactJS.
- Included Zod Validation for API routes, JWT Authentication, styled using Tailwind, dockerized with local database.

Technologies

Programming Languages:	Python3, C++ , Java, SQL, JavaScript, LaTeX,
Backend:	NodeJS, ExpressJS, NestJS, Notion CLI, Web Sockets,
Databases:	MongoDB, Postgres SQL, Prisma,
Frontend:	HTML, CSS, Figma, NextJS, ReactJS, TailwindCSS,
DevOps:	Docker, Redis, Kafka, Serverless backends
Tools:	Visual Studio Code, Git, Github, Postman