

JASKARAN SINGH BHALLA



ACADEMIC DETAILS

Year	Degree / Board	Institute	GPA / Marks(%)
	B.Tech in Textile Engineering	Indian Institute of Technology Delhi	8.17
2021	CBSE : Class XII	Sacred Heart Sen. Sec. School	97.8%
2019	CBSE : Class X	Sacred Heart Sen. Sec. School	97.2%

SCHOLASTIC ACHIEVEMENTS

- Minor Degree, Computer Science: Completed 23/20 credits with a 8.5 GPA in Dept. of Computer Science & Engn. [2024]
- Minor Degree, Entrepreneurship: Completed 15/20 credits with a 9 GPA in Dept. of Management Studies. [2024]
- Department Rank: Consistently ranked in top 8 out of 105 students for 6 semesters under Textile Technology Department. [2024]
- Letters of Recommendation: Appreciated by Prof. Abhijit Majumdar and Prof. Sohel Rana for Problem-solving abilities. [2023]
- 100xdevs Cohort: Advanced skills in Development and DevOps practices through a recognised training platform. [2024]

INTERNSHIPS

Crowwd SRL Pvt. Ltd. Brussels, Belgium | Full stack Web Development Intern

[May'24 - July'24]

- Development & Web Engineering
 - 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.
- Data Analytics & Machine Learning
 - Developed Python AWS Lambda function using BeautifulSoup, 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 LangChain, ScrapegraphAI processing 1000+ articles analysing stock sentiment.

PROJECTS

• Personalised Professional Web Portfolio | jsbhalla.in | Self

[Jan'23 - Present]

- 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.
- Portal for International Research Internships | Prof. Naveen Garg

[Jun'22 - May'23]

- 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.
- Sport Facility & Logistics Management Platform | Prof. Vireshwar Kumar

[Aug'24 - Sep'24]

- 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 | 100xdevs Cohort

[Aug'23 - Nov'24]

- Designed scalable microservices Trading System with API Engine, WebSocket services, using Redis messaging.
- Engineered Real-time Order Matching engine processing large transactions per second with low latency using TimescaleDB.
- Decentralized Exchange Simulator | Prof. Subodh Vishnu Sharma

[Jan'24 - May'24]

- Architected Decentralized Exchange prototype for ERC20 tokens, deploying Solidity Smart Contracts on Polygon Amoy testnet.
- Engineered responsive frontend with Web3.js, enabling Real-time interaction with Smart contracts using Metamask.
- Advanced Data Structures and Algorithms | Prof. Keerti Chaudhary

[Jan'23 - May'23]

- Applied Mini-Max Algo with K-step lookahead for Al-driven game strategy to Othello, BFS-DFS to strategize Snakes & Ladders.
- Implemented AVL Trees, 2-3-4 Trees, Quad Tree, Decision Tree from scratch, Max-heap based Poker Simulator, Skip-Lists.
- Logic, Systems and Scalesim DRAM Mapping | Prof. P. R. Panda

[Jan'24 - May'24]

- Developed an FPGA-based Finite State m/c with VGA output, computing gradient, edge detection on Basys3 board in VHDL.
- Explored memory mapping methods in Scale-Sim-V2 software to optimize NN accelerator performance using custom techniques.

TECHNICAL SKILLS

Programming: • Java • Python3 • CPP • JavaScript • SQL • LaTeX • VHDL • HTML • CSS • Bash • Solidity • RISCV • C

Development: • NextJS • NextAuth • ReactJS • Tailwind • TypeScript • Prisma • PostgresSQL • Mongo • Web Sockets • webRTC

Tools: • Unix • Git • Github • Version Control • Postman • VS Code • Figma • Wireshark • Vivado • Arduino • Notion

DevOps: • Docker Containerization • Monorepos • Redis • Scaling Server • CI/CD • Open API • AWS • Serverless • nginx

EXTRA CURRICULAR ACTIVITIES

- Winner | Mad for Ad: Awarded for making influential ad for Lenskart.com through Product Marketing and Editing by boAt.
- Winner | Race For Climate Action: Facilitated for impact among 170+ ventures across 26+ countries at Enactus Nationals 2023.
- Position of Responsibility: 6 Plus Leadership roles in college societies, Core Team at Enactus, Founder at Trijha.



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IIT COURSE					
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B.Tech in Textile Engineering	Indian Institute of Technology Delhi	8.17	8		

INTERNSHIPS

• Full-Stack Web Dev (Pravritti 2024), Crowwd SRL (2024)

COURSES DONE

Engg. Visualization & Comm., Calculus, Language & Writing Skill, Intro. To Electrical Engg., Intro. To Electrical Engg., Physics Laboratory, Electromagnetic Waves & Qua.mec., Intro. To Computer Science, Language & Writing Skill-2, Linear Algebra & Diffe. Equa., Microeconomics, Experimental Methods, Intro. To Biology For Engineer, Profe. Ethics & Social Resp., Introduction To Psychology, Data Structures And Algorithms, Product Realization Through Manufacturing, Ideation And Protoyping, New Venture Creation, Organizational Behaviour, Digital Logic & System Design, Venture Financing & Teaming, Seminar Course 2, Analysis & Design Of Algorithms, Special Module In Software Sy., Synthesis Of Digital Systems, Nss

POSITIONS OF RESPONSIBILITY

- Core Team Member, Enactus, OTH (June, 2022 May, 2023)
- Project Manager, Enactus, OTH (June, 2023 May, 2024)
- Project Associate, Enactus, OTH (June, 2022 May, 2023)
- Technical Representative, AAIP, OTH (June, 2022 May, 2023)
- Tryst Teamhead, CAIC (July, 2021 May, 2022)

EXTRA CURRICULAR ACTIVITIES

- Winner, Mad For Ad (July, 2022 May, 2023)
- · Winner, Winners Race of Climate Action
- Buddy Mentor, Buddy Program (June, 2022 May, 2023)
- Semi-finalists, Enactus Nationals (July, 2022 May, 2023)
- Semi-Finalists, Enactus Nationals (July, 2022 May, 2023)
- Designer, Enactus Nationals (July, 2022 May, 2023)
- Website, Enactus Nationals (July, 2022 May, 2023)

QUALIFYING EXAM

• Joint Entrance Examination (JEE) Advanced Rank: 5446 (GE)