

JASRAJ SINGH BHATIA



ACADEMIC DETAILS

Year	Degree / Board	Institute	GPA / Marks(%)
	B.Tech in Textile Engineering	Indian Institute of Technology Delhi	7.81
2019	CBSE	DAV Public School, Bhilai	89.4
2017	CBSE	DAV Public School, Bhilai	9.2

SCHOLASTIC ACHIEVEMENTS

- Minor Degree in Computer Science: Registered for 13/20 credits required for Minor Degree. GPA: 9.37 on a scale of 10
- Received Academic Excellence Award (Class XI) from DAV Public School, awarded to the top 1% of students in the batch.
- Semi-Finalist, Flipkart GRiD 4.0 Software Development Challenge: Only Team from IIT Delhi to get Selected

INTERNSHIPS

• SDE, Amazon, ATS Product & Tech: AWS Step Functions Optimization

(May, 2023 - July, 2023)

- Identified and resolved AWS Step Function failures by optimizing inefficient workflows, effectively mitigating operational disruptions
- Enabled \$1M in annual savings by eliminating unnecessary executions and achieving a remarkable 100x cost reduction
- Extended maximum workflow run time from 18 days to 365 days, enhancing operational flexibility for long-term operations
- · Backend and App Developer, Ruhi, Remote: Social Media App for Non-Resident Indians

(July, 2022)

- Enhanced the Media Compression during transmission and storage which reduced data usage and loading times by 60%
- Improved the Chat Processing Algorithm and used Hash Maps which reduced the time complexity from O(n^2) to O(nlogn) - Implemented RSA end-to-end encryption, bolstering app security by preventing unauthorized data interception

PROJECTS

- Smart Home Solutions Internet Of Things (IoT), Microcontrollers, Flutter, Node.js, MongoDB (Oct, 2020 - Aug, 2021)
 - Developed intelligent home automation systems by transforming traditional switchboards into Wi-Fi-enabled smart switchboards
 - Received Works with Hey Google Certification, devices can be controlled using Google Assistant & Google Home App
 - Improved the response time by 80% by transitioning from chaining synchronous web requests with asynchronous web requests
- eCommerce warranty system using NFTs Blockchain, NFTs, Smart Contracts

(July, 2022)

- Developed an application that generates a Non-Fungible Token (NFT) and transfers it to the customer's account upon product purchase
- Created a Smart Contract for the warranty system, allowing brands and retailers to validate purchase authenticity and warranty duration
- Mitigated false claims by programming the NFTs to decay and eventually get destroyed post the warranty period
- Sahay: ChatGPT Powered Chatbot for Solving Complex Legal Queries React.js, OAuth

- Developed chatbot, leveraging the GPT-3.5-turbo model by OpenAI, to provide quick and accurate responses to legal queries.
- Developed a responsive user-friendly interface using latest frontend technologies, ensuring accessibility for non-legal experts. • Excel-to-Predictive API SaaS Platform Machine Learning, AWS, Docker

- Developed a platform that processes Excel data with specified input/output columns, trains an ML model, and generates a prediction API
- Implemented a feature allowing users to either select an ML model or automatically opt for the best-suited model based on the data
- Added a rate limiter to manage daily API requests, ensuring fair usage and optimized performance by preventing abuse and overuse

TECHNICAL SKILLS

- Languages and Frameworks: Java, C/C++, SQL, HTML 5, CSS 3, JavaScript, Flutter
- Libraries/Softwares: Angular.js, MongoDB, Express.js, React.js, Node.js (MERN Stack), Bootstrap, Microsoft Office
- Skills: Git, Project Management, Internet Of Things (IoT), Cryptography, Blockchain, Automation
- Microcontrollers (Arduino based), Sensors and protocols for communication between them such as UART, I2C & SPI

POSITIONS OF RESPONSIBILITY

• IT Manager, Board for Hostel Management Website, BHM IIT Delhi

(October 2021 - May, 2022)

- Worked on Website Design and Project Management (managed four developers, BHM Secretaries, and a designer)
- Integrated React.js components received from various developers using GitHub, was a significant contributor to website code
- Facilitated easy maintenance of a website by using Google Sheets for data which enabled representatives to update data on the go
- Deployed website on IITD Servers, Created scripts to handle future deployments, and tutored developers about the latest technologies
- Technical Contributor (Full Stack Developer), OCS IIT Delhi

(April, 2021 - April, 2022)

- Identified and resolved critical bugs in the authorization module, which gave users anonymous access to admin-only endpoints
- Enhanced the database structure, which removed redundant data, improved space usage by 67%, and increased code efficiency
- Improved design and functional code of various Angular.is components which improved the overall **User Experience** of the website

EXTRA CURRICULAR ACTIVITIES

Backend Developer at DevClub IIT Delhi - Took lectures in Tour of Stalls and Lecture series for freshers

Disclaimer: All the information on this page is entered by student.



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IIT COURSE

DegreeB.Tech in Textile Engineering

Institute
Indian Institute of Technology Delhi

CGPA 7.81

COURSES DONE

Intro. To Electrical Engg., Intro. To Computer Science, Linear Algebra & Diffe. Equa., Electromagnetic Waves & Qua.mec., Calculus, Engg. Visualization & Comm., Microeconomics, Experimental Methods, Data Structures And Algorithms, Product Realization Through Manufacturing, Mini Project

QUALIFYING EXAM

• Joint Entrance Examination (JEE) Advanced Rank: 1271 (GE)

POSITIONS OF RESPONSIBILITY

- Developer, DevClub, CAIC (July, 2021 May, 2022)
- Developer, DevClub, CAIC (July, 2021 May, 2022)
- Technical Team Member, OCS, OTH (January, 2021 March, 2021)
- Technical Executive, BHM (July, 2021 May, 2022)
- Executive, DevClub, CAIC (June, 2022 May, 2023)