Brahamdeep Singh

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ABOUT ME

Motivated and detail-oriented BTech Computer Science student with a strong foundation in programming, data structures, and software development. Skilled in Python with hands-on experience in building efficient and scalable solutions. Fully proficient in full-stack web development, including HTML, CSS, JavaScript, Node.js, Express.js, and MongoDB, with completed projects demonstrating practical application of these technologies. Strong problem-solving abilities and a commitment to continuous growth.
Actively seeking opportunities to contribute to impactful projects and grow within a dynamic development team.

EDUCATION AND TRAINING

B.Tech in Computer Science

Sardar Beant Singh State University [25/07/2022 – Current]

City: Gurdaspur | **Country:** India | **Website:** https://sbssugsp.ac.in/

CERTIFICATIONS

[10/06/2024 – 24/07/2024]
Python

Solitaire Infosys, Mohali | Summer 2024

- Attended certified summer training focused on the basics of Python programming.

- Learned fundamental concepts such as variables, data types, loops, conditionals, functions.

- Practiced writing simple Python programs and solving beginner-level coding problems.

[16/06/2025 – 30/07/2025]
Nodejs & MongoDB

Novem Controls, Mohali | Summer 2025

- Successfully completed certified training focused on the fundamentals of backend web development using Node.js and MongoDB.

- Gained hands-on experience in creating basic server-side applications, handling HTTP requests, and setting up Express.js routes.

- Learned to perform CRUD operations with MongoDB and understand how NoSQL databases work in real-world web applications.

PROJECTS

Gaming Info Website
- Designed and developed an informational website about video games, showcasing multiple games with dedicated pages for each.
- Implemented key sections including Home, Game Descriptions, and categorized game listings.
- Focused on user-friendly navigation, intuitive layout, and consistent styling across all pages.

E-Commerce Web Application (Full-Stack Development)
- Designed and developed a fully functional e-commerce website with separate interfaces for users and vendors.
- Implemented key features including user authentication, vendor registration, product listings, shopping cart, and order placement.
- Integrated secure login and signup functionality for both customers and sellers, with form validation.
- Enabled vendors to add, update, and manage products, while users could browse, search, and order products.
- Developed backend using Node.js and Express.js, with MongoDB for database management.
- Managed user and product data efficiently using MongoDB collections and handled CRUD operations via backend logic.

LifeDrop: A Smart Blood Donation Management and Emergency Response System
- Developed a full-stack Blood Donation Platform using Node.js, Express.js, MongoDB, and Leaflet to automate donor–patient communication.
- Implemented 15 km radius donor notification algorithm using geolocation filtering to reduce emergency response time significantly.
- Built a secure JWT-based authentication system with role separation for users and admins, ensuring safe and verified platform access.
- Designed multiple MongoDB collections (Users, Requests, BloodBanks, Donations) to organize emergency data and streamline backend operations.
- Created a responsive single-page UI with real-time emergency request handling, improving accessibility and usability for donors and hospitals.
- Developed a scheduling system allowing donors to pre-book appointments, improving consistency and reducing blood bank congestion.

SKILLS

Frontend

HTML / CSS / JavaScript

Backend

Express.js / Node.js

Database

MongoDB / MySQL

LANGUAGE SKILLS

Mother tongue(s): Punjabi

Other language(s): English | Hindi