

Ekaspreet Singh Atwal

Information Technology Student

Dr B R Ambedkar National Institute of Technology Jalandhar

Upcoming SWE Intern at Microsoft, Summer 2025

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EDUCATION

- **NIT Jalandhar** 2022 - Current
Bachelor of Technology - Information Technology CGPA / Percentage: 8.34
- **RMB DAV Public School** 2022
Central Board of Secondary Education CGPA / Percentage: 93.8

PROJECTS

- **Chat-App** **GitHub Link:**

Chat-App is a real-time messaging application that allows users to communicate instantly with each other. It provides a platform for seamless text-based conversations in a user-friendly interface.

- Developed using Node.js and Express.js for the backend, with Socket.IO for real-time bidirectional event-based communication.
- Implements user authentication and authorization to ensure secure access to chat rooms.
- Features include real-time messaging, user presence indicators, and message history.

Tech Stack: Node.js, Express.js, Socket.IO, MongoDB, HTML/CSS, JavaScript

- **SAMP - NIT Jalandhar** **GitHub Link:**

Developed a website for managing user data and administrative tasks for SAMP [Student Academic Mentorship Program]

- Implemented user authentication and role-based access control (RBAC) to manage admin privileges.
- Developed user management features, including the ability to search, update, and delete users.
- Integrated data validation using Zod to ensure accurate and secure input.
- Utilized Express.js middleware for handling authentication and authorization.

Tech Stack: Node.js, Express.js, React, MongoDB, Tailwind CSS

- **Blog It** **GitHub Link:**

Blog It is a modern blogging platform inspired by Medium. Users can create, edit, and delete blog posts, as well as browse content with a seamless user experience.

- Built with React and Vite for the frontend, and Cloudflare Workers for the backend.
- Implements JWT-based authentication for secure user management.
- Provides skeleton loading to enhance user experience during data fetching.
- Uses Prisma for database management with connection pooling for efficient queries.
- Schema validation and type inference powered by Zod, ensuring type safety across the application.

Tech Stack: React, Vite, Cloudflare Workers, TypeScript, Prisma, PostgreSQL, Zod, JWT

TECHNICAL SKILLS AND INTERESTS

- **Languages:** C, C++, JavaScript, TypeScript, Java, Python
- **Frameworks & Libraries:** Node.js, Express.js, HonoJS, React.js, Next.js, Recoil, WebSockets, Zod, TailwindCSS
- **Tools:** Git/GitHub, Figma, Google Colab, Docker, AWS
- **Databases:** MySQL, PostgreSQL, MongoDB, Prisma ORM
- **Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Computer Networks, Database Management Systems, Operating Systems

POSITIONS OF RESPONSIBILITY

- **Class Representative IT 26:** Department Of Information Technology
- **Student Coordinator Cybernauts:** Official Technical Society of IT NITJ
- **Core Member WDMC team :** SAMP Program Backend Leader

ACHIEVEMENTS AND CODING PROFILES

- **LeetCode:** Solved **more than 550+** questions on various algorithms on LeetCode.
- **Academics:** Among the **top 5%** strata of my academic year.
- **GFG:** Solved **more than 300+** questions on various algorithms on GFG and CodeStudio.
- **CodeChef:** Achieved a **3-Star** rating with a score of **1648** and participated in various contests on CodeChef.