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

- **Dr B R Ambedkar National Institute of Technology Jalandhar** — 2022 - Present
  Bachelor of Technology - Information Technology — *CGPA: 8.37 (Top 5%)*

TECHNICAL SKILLS

- **Programming Languages**: C++, C, JavaScript, TypeScript, Python, Java
- **Frontend Development**: React.js, Next.js, React Native, TailwindCSS, Recoil
- **Backend Engineering**: Node.js, Express.js, HonoJS, FastAPI, WebSockets
- **Database Systems**: PostgreSQL, MongoDB, MySQL, Prisma ORM
- **DevOps & Tooling**: Git/GitHub, Docker, AWS, Figma, Google Colab
- **AI/ML Technologies**: LangChain, Streamlit, Zod
- **Relevant Coursework**: Data Structures & Algorithms, Object-Oriented Programming, Computer Networks, Database Management Systems, Operating Systems

PROJECTS

- **DevMux GitHub — Live Demo**: A collaborative platform for developers integrating video conferencing, code editing, and whiteboarding in one ecosystem.
  - Architected a full-stack application with **Next.js**, **TypeScript**, and **Tailwind CSS** featuring responsive design across all device types
  - Engineered real-time collaboration capabilities utilizing **LiveKit** for video meetings and integrated code sharing via **CodeSandbox** components
  - Designed a social networking layer with friend connections and meeting invitation systems powered by **Prisma ORM** and **PostgreSQL**

  Tech Stack: Next.js, TypeScript, Tailwind CSS, LiveKit, Prisma ORM, PostgreSQL, Next Auth

- **macOS-Themed Portfolio Website GitHub — Live Demo**: An immersive, desktop-inspired portfolio website recreating the macOS experience with functional applications and modern UI elements.
  - Crafted with **Next.js**, **TypeScript**, and **Tailwind CSS**, achieving **95+** Lighthouse performance score
  - Programmed a fully functional desktop environment featuring draggable windows, dock animations, and operating system controls
  - Incorporated **Google Gemini API** to power an AI assistant delivering contextual portfolio information
  - Attracted **10 GitHub stars** as a community-supported open-source project

  Tech Stack: Next.js, TypeScript, Tailwind CSS, React Context API, Google Gemini API

- **Drishti - Psychometric Assessment System   Live Demo**: A proprietary platform for a psychology services client to administer psychometric assessments to high school students, **serving 1,840+ users.**
  - Spearheaded development of a comprehensive assessment platform for **RIASEC, DISC, MBTI, and aptitude tests** delivering personalized career guidance
  - Constructed an analytics-rich admin dashboard with data visualization capabilities and automated PDF report generation for psychological analysis

  Tech Stack: Next.js, TypeScript, Tailwind CSS, MongoDB, Prisma, Recharts

ACHIEVEMENTS

- **HackTU 6.0 - National Hackathon**: Secured **2nd Runner-Up** in the Main Track and captured **Best AI Solution** award from MLH for creating an RAG-powered educational platform **ZingGuru**. Competed among **5,000+ participants** from **800+ institutions**.
- **Electothon 7.0 - National Hackathon**: Earned the **Best Use Case of MongoDB** distinction from MLH for developing **JIVA**, a user-centric healthcare tracking system. Outperformed **4,550+ participants** from **700+ colleges** nationwide.
- **Hack CBS 7.0 - National Hackathon**: Claimed the **TON Blockchain Track** prize by creating a decentralized credential verification system for academic certificates. Prevailed among **4,400+ participants** from **718 colleges** across India.

CODING PROFILES

- **LeetCode**: Mastered **680+ problems** across diverse algorithms and data structures.
- **GeeksforGeeks**: Conquered **300+ problems** focusing on algorithmic efficiency and data structure optimization.
- **CodeChef**: Attained a **3-Star rating** (1648) through consistent excellence in competitive programming contests.

Leadership Experience

- **Core Member - Google Developer Group (GDG) on Campus (2023 - Present)**: Orchestrated 5+ technical workshops and mentored 30+ students in modern web development technologies at NIT Jalandhar.
- **Student Coordinator - Cybernauts (2023 - Present)**: Directed the official Technical Society of IT department at NITJ, coordinating hackathons and technical events engaging 200+ participants.
- **Team Lead - WDMC Team D (2022 - Present)**: Oversaw a team of 5 developers to conceptualize, build, and deploy the institute's official web application.

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