

ARSHPREET SINGH

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EDUCATION

Chandigarh University

Bachelor of Engineering in Computer Science — **CGPA: 8.68/10.0**

Mohali, Punjab

Aug. 2023 – July 2027

Guru Nanak Public School

Senior Secondary Education (Class 12) — **91.4%**

Khant-Manpur

Apr. 2022 – March 2023

EXPERIENCE

Research Intern

June 2025 – July 2025

IIT Guwahati

- **Conducted technical research** on cache memory optimization, improving system performance by **analyzing data patterns**.
- **Collaborated** with research team to **identify performance bottlenecks** and develop **data-driven solutions**
- Applied **analytical problem-solving skills** to optimize complex technical systems.

Technical Support

Jan 2025 – May 2025

MERN Stack Development Community

- Provided technical guidance to **5000+ students**, **analyzing common development challenges** and creating **step-by-step solutions** for recurring issues.
- **Resolved 320+ technical queries** with **4.8/5 student satisfaction rating** through systematic debugging and comprehensive code optimization guidance.

PROJECTS

Fellowship Application Portal (VLSID 2026) | Next.js, Node.js, PostgreSQL, TypeScript

Aug 2024 – Present

- Developed a scalable fellowship application platform (**10,000+ users**) with registration, tracking features.
- Implemented **secure authentication** and role-based access for applicants, reviewers, and admins with automated review workflows.
- Onboarded **500+ registered users** and processed **500+ fellowship applications**.
- **Live Demo:** [here](#)

E-Commerce Platform | Next.js, Node.js, Express, PostgreSQL, Razorpay, TailwindCSS

Mar 2025 – Apr 2025

- Engineered a scalable e-commerce platform handling **10,000+ product views** and **1,000+ orders**, with secure authentication, cart management, and **Razorpay payment integration**.
- Enhanced frontend performance using Next.js ISR and TailwindCSS, achieving a **95+ Lighthouse score** and reducing load times by **40%**.
- **Live Demo:** [here](#) | **GitHub:** [here](#)

Real-Time Drawing App | Next.js, Node.js, TypeScript, PostgreSQL, WebSockets

Jan 2025 – Feb 2025

- Built a real-time **collaborative** board (inspired by Excalidraw) enabling seamless **multi-user drawing** in shared workspaces.
- Implemented **WebSocket synchronization** and scaled the backend to support **10,000+ concurrent users** with **<100ms latency**.
- **GitHub:** [here](#)

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Java, C/C++, SQL, HTML/CSS

Frameworks & Technologies: Node.js, Express.js, Next.js, React.js, WebSockets, Redux, REST APIs, Tailwind CSS, Bootstrap

Databases: PostgreSQL, MySQL, MongoDB, Prisma

DevOps & Cloud: Docker, Kubernetes, CI/CD (GitHub Actions), AWS

Developer Tools: Git, GitHub, Postman, VS Code

ACHIEVEMENTS

- Attained a **1827 rating** on LeetCode with **800+ problems solved** (Top **7.57%** globally). [🔗](#)
- Rated **Pupil** on Codeforces with rating of **1247** through regular participation in rated contests. [🔗](#)