

Varshil Pandey

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Education

Dr. Shyama Prasad Mukherjee IIIT , Naya Raipur <i>B.Tech in Computer Science and Engineering</i>	(CGPA: 9.19)	2024 – 2028
• Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Software Development		
Delhi Public School, Raipur <i>Class XII</i>	(CBSE Board) (93.6%)	2023 – 2024
Delhi Public School, Raipur <i>Class X</i>	(CBSE Board) (95.6%)	2021 – 2022

Skills

Languages	C++, Python, JavaScript, SQL
Frontend	React, Vite, Tailwind CSS, HTML, CSS, EJS
Backend	Node.js, Express.js, Passport.js, JWT
Databases	PostgreSQL, MongoDB
Developer Tools	Git, GitHub, VS Code, Postman

Projects

Vibe Commerce | Full-Stack E-Commerce Platform  GitHub Repo | Live

- Developed a full-stack e-commerce app with secure **Google OAuth 2.0** login and **JWT**-based stateless sessions.
- Engineered the checkout process with **Razorpay** and PostgreSQL Transactions, ensuring stock levels are only decremented after server-side payment verification, guaranteeing atomic data integrity.
- Implemented live inventory tracking (e.g., "Only 5 left!"), persistent order history, and a cart with full quantity management.
- Designed a performance optimized product query system using **in-memory caching** with a cache invalidation strategy that clears the cache upon a successful sale to display real-time stock.
- Tech Stack:** React (Vite), Node.js, Express, PostgreSQL (NeonDB), Passport.js, JWT, Razorpay.

Slot Swapper | Full Stack P2P time-slot scheduling application  GitHub Repo | Live

- Developed a full-stack, peer-to-peer scheduling web app for users to swap calendar time slots.
- Engineered a secure **REST API** with **Node/Express** and **JWT** (JSON Web Tokens) for user authentication and session management.
- Implemented atomic swap logic using PostgreSQL transactions to ensure data integrity, preventing partial or failed exchanges.
- Deployed the complete application to Vercel, integrating with a Neon (PostgreSQL) cloud database and GitHub for CI/CD.
- Tech Stack:** React, Node.js, Express.js, PostgreSQL (Neon), JWT, Vercel

Certifications

- Problem Solving (Intermediate)** - *HackerRank*
- The Complete 2024 Web Development Bootcamp** - *Udemy*

Competitive Programming

- Codeforces:** Achieved a max rating of **1202 (Pupil)**. (Profile: VarZ)
- TakeUForward:** Solved over 350+ DSA problems, demonstrating a strong foundation in Data Structures and

Achievements & Extracurriculars

- **JEE Mains 2024:** Secured **98.14 percentile**, a top-tier rank among over 1.2 million candidates.
- **National Level Athlete:** Represented Chhattisgarh in two National Swimming Championships (SFI).
- **Competitive Gaming:** Achieved **Immortal 2** rank in Valorant, placing in the top 5000 on the Asia server.