

# Varshil Pandey

legend.varz@gmail.com | +91 9340652253 | [LinkedIn](#) | [GitHub](#)

## Education

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

## Skills

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

## Projects

<b>Vibe Commerce</b>   Full-Stack E-Commerce Platform	<a href="#">GitHub Repo</a>
• Developed a full-stack e-commerce app with secure <b>Google OAuth 2.0</b> login and <b>JWT</b> -based stateless sessions.	
• Engineered the checkout process with <b>Razorpay</b> 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 <b>in-memory caching</b> with a cache invalidation strategy that clears the cache upon a successful sale to display real-time stock.	
• <b>Tech Stack:</b> React (Vite), Node.js, Express, PostgreSQL (NeonDB), Passport.js, JWT, Razorpay.	

<b>Slot Swapper</b>   Full Stack P2P time-slot scheduling application	<a href="#">GitHub Repo</a>
• Developed a full-stack, peer-to-peer scheduling web app for users to swap calendar time slots.	
• Engineered a secure <b>REST API</b> with <b>Node/Express</b> and <b>JWT</b> (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.	
• <b>Tech Stack:</b> 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

Algorithms. (Profile)

## Achievements & Extracurriculars

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- **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.