

Vaibhav Pratap Deo

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SKILLS

- **Languages:** C++, JavaScript, C, PHP, Python
- **Frameworks:** HTML and CSS, NodeJS, React
- **Tools/Platforms:** MySQL, MongoDB
- **Soft Skills:** Problem-Solving, Team Player, Adaptability

PROJECTS

- **Optimum Inventory Control System:** [Github](#) Dec 2025
 - **Purpose & Detail:** Developed a full-stack inventory optimization platform using the MERN Stack, integrating advanced statistical models like **ABC Analysis** (Pareto Principle) and EOQ (Economic Order Quantity).
 - **Technical Execution:** Engineered complex backend logic in Node.js to automate procurement calculations, securing data with **JWT authentication** and maintaining a tamper-proof audit log in MongoDB
 - **Outcome:** Visualized real-time stock trends via **Chart.js**, reducing manual inventory planning time by approximately **60%** and preventing potential stockouts through automated alerts.
 - **Tech:** MongoDB, Express.js, React.js, Node.js, Tailwind CSS, Chart.js
- **TeamChat – Real Time Group Messaging :** [Github](#) Apr 2025
 - **Purpose & Detail:** Engineered a real-time communication platform using **PHP** and **JavaScript**, featuring secure user authentication and dynamic chat interfaces.
 - **Technical Execution:** Designed a custom RESTful API to handle secure data exchange and synchronized message delivery across multiple client sessions.
 - **Outcome:** Achieved low-latency messaging (under 200ms) and successfully stress-tested the application to handle **50+ concurrent users** without performance degradation.
 - **Tech:** HTML, CSS, Javascript, PHP

CERTIFICATES/CERTIFICATIONS [LINK](#)

Oracle Certified Generative AI Professional	Oct 2025
Computer Communications – University of Colorado	Nov 2024
Digital Systems:From Logic Gates to Processors - Universitat Autònoma de Barcelona	Oct 2024
Introduction to Hardware and Operating Systems - IBM	Sep 2024
The Bits and Bytes of Computer Networking – Google	Aug 2024

EXTRA CURRICULAR ACTIVITIES

Participated in 24 hours Catch the Flag Tournament	Apr 2024
Participated in Republic of Cyber Sentinels CTF event	Jan 2024

EDUCATION

Lovely Professional University	Punjab, India
Bachelor of Technology - Computer Science and Engineering: CGPA: 7.6	Aug 2023- Present
Sunbeam School Lahartara	Varanasi, Uttar Pradesh
Intermediate: Percentage: 70.6%	Apr 2020 - Mar 2022
Sunbeam School Lahartara	Varanasi, Uttar Pradesh
Matriculation: Percentage: 94.2%	Apr 2019 - Mar 2020