

# 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

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