

Abhinav Singh

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EDUCATION

- **Chandigarh University** Chandigarh, India
Bachelor of Engineering - Computer Science And Engineering ; CGPA: 7.65
July 2022 - Present
- **Senior Secondary (12th CBSE)**
Percentage-91.6%
- **Secondary (10th CBSE)**
Percentage-92.0%

SKILLS SUMMARY

- **Languages:** C,C++, Python, Solidity, HTML5,CSS3,JavaScript
- **Frameworks/Libraries:** Reactjs,Node.js,Web3.js, Wordpress
- **Tools/Platform:** GIT, PostgreSQL, MySQL,Remix
- **Coursework:** Computer Networks, DBMS, OOP, Operating System, Data Structures And Algorithms
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

EXPERIENCE

- **Emprex Energies Pvt Ltd** Hybrid
Associate Software Developer (Internship) *Dec 2024 - June 2025*
 - : Collaborated with cross-functional teams to design and implement decentralized applications (DApps).
 - : Participated in code reviews, testing, and debugging of smart contracts to maintain system integrity.
 - : Contributed to documentation and knowledge sharing on blockchain best practices within the team.
- **Metacrafter** Remote
Summer Internship Programme *Jun 2024 - Aug 2024*
 - : Gained hands-on experience with Web3.js, Remix IDE, Ethers.js, and smart contract testing using Hardhat.
 - : Collaborated with a global developer community and participated in blockchain bounties and code reviews.
 - : Contributed to open-source smart contract repositories and presented project demos to mentors.

PROJECTS

- **GROCERY MANAGEMENT APPLICATION**
Python ,Pandas,Numpy Matplotlib
Designed and developed a Grocery Management System using Python, with features for inventory tracking, billing, and stock alerts.

Used Pandas, NumPy for data analysis and machine learning model development.

Applied data visualization techniques (Matplotlib/Seaborn) to present inventory trends and sales forecasts.
- **FAKE PRODUCT IDENTIFICATION SYSTEM**
Blockchain,Python,Django,Remix,Solidity
Designed the system to be scalable for retail, logistics, and supply chain use cases, with focus on user-friendliness and accuracy.

Integrated barcode/QR code scanning to validate products against a secure product database.

Engineered a system capable of detecting counterfeit products through logo/image pattern recognition.
- **PROJECT ON HUMAN DETECTION SYSTEM**
AurdinoIDE ,Breadboard, Jumpers, Resistors
Designed the system to be scalable for retail, logistics, and supply chain use cases, with focus on user-friendliness and accuracy.

Used IR cameras with Raspberry Pi for visual confirmation.

Conducted testing in different lighting and motion scenarios to ensure robustness.

HONORS AND VOLUNTEER EXPERIENCE

- NPTEL – Foundations of Cloud IoT Edge ML Scored 90/100, ranked in top 2% of participants; gained expertise in IoT architectures, edge computing, and real-world ML applications.
- School Topper – Class 10 CBSE Board Exams Achieved highest score in the school with 92.0%, 2019.
- Best Project Award – Human Detection System (Arduino)
Awarded for innovation and practical application in embedded systems during annual tech project showcase.