AMANPREET SINGH

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GitHub : **https://github.com/Amanpreet325**
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Portfolio : **https://next-portfolix.vercel.app//**
LeetCode : **https://leetcode.com/amanpreet325/**

ACADEMIC DETAILS

Year	Degree/Exam	Institute	GPA/Marks(%)
Oct, 2021 - 2025	B.TECH in Computer Science	Graphic Era University Dehradun	8.6/10.00
2021	12th	Doon International School	86.00 %
2019	10th	Doon International School	96.80 %

WORK EXPERIENCE

WEB DEVELOPER:- RankMantra, Dehradun(March 2024-September 2024) :

- Excelled in building and maintaining websites with a focus on both frontend and backend development, utilizing **PHP, JavaScript**, Bootstrap, HTML, CSS, and WordPress to create dynamic, responsive designs and custom plugins.

- Applied MERN stack expertise to develop scalable full-stack applications, integrating **MongoDB, Express.js, React.js, Node.js PHP backend** for efficient industry-level web solutions.

PROJECTS

- **Next-Gen Pathology Lab CRM** GitHub:

  - Developed a **B2B SaaS prototype model**, a Pathology Lab Management System – using **Java Spring Boot** and **React.js**, tailored for lab owners and vendors. Designed as a multi-tenant platform enabling 360° visibility across inventory, patients, and diagnostics services.
  - Optimized lab operations with **60% fewer stock outages** and **40% faster** patient turnaround using real-time data flows.

- **Smart Seat Posture Recognition** GitHub:

  - This smart posture correction device leverages computer vision and **machine learning**, utilizing libraries such as **Keras, TensorFlow, OpenPose, and OpenCV** for posture analysis.
  - By employing Python-based algorithms for keypoint detection, the system provides real-time feedback and continuous monitoring, promoting long-term ergonomic improvements.

- **PeerPenny — Money Saving Application** GitHub:

  - The website allows users to save money securely while maximizing its growth potential.
  - Developed using PHP; the backend is powered by a robust **MySQL database**, ensuring smooth functionality and reliable data management with a seamless UI.

PATENT PUBLICATIONS

- Indian Patent Application No. **202411052817** Dated: July 10, 2024 Entitled "**A SYSTEM FOR A VISUALLY IMPAIRED AND METHOD THERE OF**"(Status: Confirmed)

TECHNICAL SKILLS

- **Languages** : C, C++ , Java , Python, SQL, JavaScript, PHP

- **Tools / Platforms** : Windows, IntelliJ,Visual Studio Code, MS Excel, Wordpress, Git, Canva, Azure , Adobe Illustrator

- **Libraries / Frameworks** : SpringBoot, ReactJS, Next Js ,NodeJS, ExpressJS, Sklearn, Pandas, Numpy, OpenCV, Git, Tailwind, Material UI, MongoDB, IOT

- **CourseWork** : Operating System, DBMS

- **Soft Skills** : Communication, Problem-Solving, Adaptability