

PAYEL SINGH

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[Portfolio](#)

SUMMARY

Motivated Computer Science core student at VIT Vellore, actively seeking internship opportunities to apply and expand skills in Front-End Development, Machine Learning, and Data Structures & Algorithms. Experienced in building responsive web applications and implementing ML solutions. Strong problem-solving mindset with a commitment to learning and contributing to real-world tech projects.

TECHNICAL SKILLS:

- Programming Languages: C++, Java
- Web Development : HTML , CSS , JavaScript , Bootstrap , Figma
- Database Management : MySQL
- Tools : Git , GitHub , Linux , Shell Scripting , StarUML
- Soft Skills : Effective Communication , Problem Solving , Adaptability , Team Collaboration
- Core Concepts : Data Structures and Algorithm , Object Oriented Programming , Operating Systems , DBMS

PROJECTS

[Krypto – NFT Marketplace UI design](#)

- **Designed** a visually immersive and modern landing page for an NFT marketplace, focusing on usability, branding .
- **Created** structured layouts featuring user testimonials, feature highlights, call-to-action buttons, and pricing t
- **Built** interactive components and design elements like testimonial sliders, analytics cards, and mobile CTA buttons using Figma's prototyping tools..

[Budget Management Web App](#)

- **Designed** and developed a responsive web-based budget management tool during a hackathon to help users track expenses, set savings goals, and manage monthly budgets intuitively.
- **Optimized** UI/UX through clean layout design, intuitive navigation, and mobile responsiveness, enhancing user engagement and accessibility across devices.
- **Collaborated** with a team under tight deadlines to prototype and deploy the app.

[Hepatitis B Diagnosis Using Spider Monkey Optimization Algorithm](#)

- **Implemented** a Machine Learning model utilizing the Spider Monkey Optimization (SMO) algorithm to accurately diagnose Hepatitis B using clinical and biochemical data.
- **Enhanced** feature selection and model convergence efficiency by integrating SMO with traditional classification algorithms, improving diagnostic accuracy over baseline models.
- **Analyzed** a medical dataset using data preprocessing, normalization, and feature scaling techniques to ensure model robustness and reliability.

WORK EXPERIENCE AND CERTIFICATION

- **SDE INTERN | [Simpsoft Solutions](#)** (19 May 2025 – 19 June 2025)
Worked on Android app development using Kotlin, learning key concepts of UI/UX and backend integration.
Successfully completed a one-month project, which led to an offer to continue with the company based on performance.
- **NCC (National Cadet Cops) B and C Certification** (15 October 2022 – 15 March 2025)
- **[DSA using C++](#)** (Data Structure and Algorithm)
- **[Generative AI](#)** (Microsoft and LinkedIn)
- **[Leetcode](#)** - Knight badge level (Top 4%)

EDUCATION & OTHER

Vellore Institute of Technology – UG (2022-2026)

Shri Shikshayatan School – 10th (2020)

Khalsa Model Senior Secondary School – 12th (2022)

LANGUAGES: English, Hindi, Bengali

INTERESTS: Basketball, Badminton