

# PAYEL SINGH

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## TECHNICAL SKILLS

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**Programming Languages:** C++, Kotlin. **Web Development:** HTML, CSS, JavaScript, Bootstrap, Figma. **Analytics:** MySQL. **Tools:** Git, GitHub, Linux, Shell Scripting, StarUML. **Soft Skills:** Effective Communication, Problem Solving, Adaptability, Team Collaboration. **Core Concepts:** Data Structures and Algorithms, Object Oriented Programming, Operating Systems, DBMS, Computer Networks.

## PROJECTS AND RESEARCH

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### Krypto – NFT Marketplace UI

- Designed a modern and immersive landing page with structured layouts, testimonials, pricing, and feature highlights.
- Built interactive components like testimonial sliders, analytics cards, and mobile CTA buttons using Figma prototyping.

*Tools Used: Figma, Prototyping Tools*

### Budget Management Web App

- Developed a responsive web app for expense tracking, savings goals, and monthly budget management during a hackathon.
- Optimized UI/UX with clean layouts, intuitive navigation, and mobile responsiveness to boost engagement.

*Tools Used: HTML, CSS, JavaScript*

### Hepatitis B Diagnosis (Research)

- Implemented Spider Monkey Optimization (SMO) with ML classifiers to enhance Hepatitis B diagnosis accuracy.
- Improved feature selection, convergence efficiency, and model robustness using preprocessing & scaling techniques.

*Tools Used: Python, Scikit-learn, SMO Algorithm*

### YouTube Clone

- Built a clone with core features like video browsing, playback, and structured UI for a streaming experience.
- Focused on responsive design and intuitive navigation for seamless use across devices.

*Tools Used: HTML, CSS*

### Rock-Paper-Scissor Game Website

- Created an interactive browser-based game with engaging UI and smooth gameplay logic.
- Deployed as a lightweight and responsive web app for fun user interaction.

*Tools Used: HTML, CSS, JavaScript*

## EXPERIENCE

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- 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 Corps)** (15 October 2022 – 15 March 2025)  
Completed 3 years of NCC with both 'B' and 'C' Certificates, actively participating in 2 training camps. Developed strong discipline, leadership, and teamwork skills through drills, community service, and camp activities.

## EDUCATION

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VIT Vellore (B-Tech Computer Science Engineering)

Shri Shikshayatan School(X)

Khalsa Model Senior Secondary High School (XII)

## CERTIFICATION

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**Data Structures & Algorithms**, Udemy (Abdul Bari) | **Hackathon:** Web Programming | Data Structures & Algorithms, **LeetCode** (1-Month Course) | **Generative AI**, LinkedIn & Microsoft | **NCC 'B' and 'C' Certification**.