

# Mankirat Singh

Roll No.: 102203620

Computer Engineering

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Portfolio

## EXPERIENCE

### Student Research Intern

January 2024 - Present

Thapar Institute of Engineering and Technology

On-site

- Developing the Genetic Algorithm to generate comprehensive time table scheduling system, resulting in a 30% reduction in scheduling conflicts.
- Implemented Accurate Parameters for GA which improved latency and throughput by 35%.
- Revamped and overhauled a database system to streamline data storage, yielding a significant 10% reduction in space utilization.

### Undigitally

June 2023 - Nov 2023

Flutter Development Intern

Remote

- Created a sleek mobile app for a startup, utilizing Material UI for an intuitive interface.
- Implemented Flutter with Firebase for efficient data management, boosting performance and user satisfaction.

## PROJECTS

### DeepWord (Selenium, Tunneling, Flask, sklearn, ReactJS)

February 2024

web portal and ML model to detect deep fake content of a specific individual across the internet

[Project Link](#)

- Constructed a backend infrastructure with Flask and RESTful APIs.
- Developed backend crawlers to systematically search the internet for potential instances of deep fake content.
- Created the UI for good user engagement and interface intuitiveness using MUI.
- Awarded as the Runner Ups at HackTU 5.0

### Feedback App TIET (PHP, SQL, Flutter)

December 2023 - Present

App to seamlessly collect and manage student feedback for teachers.

[Project Link](#)

- Crafted a frontend using Flutter, catalyzing a remarkable 20% surge in user engagement.
- Refined and optimized RESTful APIs in PHP, driving a significant 15% boost in operational efficiency.

### Leaderboard - 30 Days of Code (ReactJS, Firestore, Oracle Cloud)

June 2023

Established a leaderboard for a 30-day competition, tracking GitHub Repositories of participants.

[Project Link](#)

- Improved Leaderboard efficiency by using a 4 hour cron jobs on Oracle Cloud VM.
- Handled 30+ participants in the competition.

## TECHNICAL SKILLS

Languages	C, C++, Python, JavaScript, Dart, PHP, GoLang, Typescript, HTML, CSS
Developer Tools	React MUI, GIT, Linux, POSTMAN, Node.js, Docker, npm
Frameworks	Next.js, Angular.js, Express, Flutter
Libraries	React JS, Pygames, Selenium, SKLearn
Cloud/Databases	AWS, Google Cloud, SQL, Firebase, AppWrite, Azure, SQLite
Soft Skills	Video Editing, Team Management, Attention to Detail, Communication

## EDUCATION

### Thapar Institute, Patiala

B.E COE

2026

CGPA: 8.45

### Dayanand Public School, Nabha

PCM, CBSE, Nabha

2022

Percentage: 90.3%

## POSITIONS OF RESPONSIBILITY

### Technical Head, Microsoft Learn Student Chapter, TIET

April 2024 - Present

- Contributed to 5+ open source projects, to name a few, bulk mail-sender, [Recruitment portal](#), [MLSC TIET Website](#).
- Led a team of 15 developers as the **Core Member** and **Technical Coordinator** through the development and deployment phases of the Makeathon 6 website, which successfully attracted 2000+ visitors. (Link : [Website](#))
- Oversaw a team of 5 developers in constructing the Makeathon 6 app and worked on mentor calling feature handling over 300+ participants at the hackathon..(Link: [Makeathon 6 App](#))

### Core, Thapar Food Festival

September 2023 - November 2023

- Developed the website for North India's largest food festival. [\[Link\]](#)

## ACHIEVEMENTS

Runner Ups Rewarded at "HackTU 5.0" hackathon conducted by CCS TIET

February 2024

OWASP Internal Hack Winner 2nd place at "Internal Hack" conducted by OWASP TIET

July 2023

Google Cloud Skill Boost Earned Google Cloud skill badges for AI and cloud

[\[Skill Boost Profile\]](#)