

# Pranav Sharma

B.Tech CSE | Chandigarh Engineering College  
LeetCode |  GitHub |  LinkedIn

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Mohali, Punjab

## Work Experience

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### Optus Edtech Solutions

August 2025 – April 2026  
Jabalpur, MP

Product Associate & Technical Mentor

#### Full-Stack Development & Mentorship

React.js, Node.js, Express.js, REST APIs, Tailwind CSS, Agile/Scrum

- Built and shipped a production-grade, live web platform using React.js, Node.js, Express.js, and REST APIs, currently serving active users.
- Architected 8+ responsive frontend pages with Tailwind CSS, improving average page load time by 30% and aligning design with brand guidelines.
- Designed and delivered a 12-week DSA curriculum for 500+ students; 80% of participants solved Medium or above LeetCode problems by program end.
- Operated within an Agile/Scrum framework across 3-week sprints, maintaining backlog, sprint planning, and retrospectives with cross-functional teams.

## Personal Projects

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### Unix Shell (LSH) | GitHub

C++17, POSIX

- **Process Management** Engineered a functional Unix shell supporting command execution, piping, and 3 built-in commands (`cd`, `exit`, `help`) using `fork()`, `execvp()`, and `waitpid()` for full process lifecycle management.
- **Code Optimization** Replaced manual C buffers with `std::vector` and `std::istream`, reducing tokenization code by 40% and improving maintainability.

### Git Pusher | GitHub

Python, PyGitHub, PyQt6, Tkinter

- **Async UI** Refactored to PyQt6 with async QThread workers, eliminating UI blocking during API calls and ensuring smooth user interactions.
- **SDK Design** Designed a typed Python SDK interface for GitHub operations enabling seamless reuse across CLI and GUI layers; packaged and published for open-source use.

### Shield | GitHub

TensorFlow, OpenCV, Python

- **ML Model** Trained a binary image classification model for gender-based harassment detection using a dataset of 10,000+ images, achieving 87% validation accuracy.
- **ML Pipeline** Implemented a preprocessing pipeline including normalization, augmentation, and train/test split for robust model performance.

## Technical Skills

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**Programming Languages:** C++, Python, Java, JavaScript, SQL, HTML

**Frameworks & Libraries:** React.js, Node.js, Express.js, Flask, Tailwind CSS, TensorFlow, OpenCV, REST APIs

**Databases & Tools:** MySQL, MongoDB, Firebase, PostgreSQL, Git, GitHub, Docker, VS Code

**Cloud & Coursework:** AWS (EC2, S3, Lambda), Linux/POSIX, Data Structures & Algorithms, Operating Systems, DBMS, OOP, Computer Networks

## Achievements

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- LeetCode: 500+ problems solved across Data Structures, Algorithms, and System Design.
- **1st Place** – National Science Day Project Exhibition, Software Category.
- **1st Place** ×2 – Divisional-Level Science Quiz, Senior Category (consecutive wins).
- Earned **SQL (Basic)** certification from HackerRank (2025) and **Python Essentials 1** from Cisco Networking Academy via Credly (2024).

## Education

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### Chandigarh Engineering College

July 2022 – May 2026

Bachelor of Technology – Computer Science and Engineering

CGPA: 8.29/10

## Leadership Experience

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### Technical Head, GFG Student Chapter

September 2023 – August 2024

- Led technical operations for a **450+** member chapter; recruited **20** engineers through 30+ structured interviews.
- Conducted **20+ hands-on workshops** covering DSA, web development, and competitive programming, averaging **40+** students per session.
- Coordinated chapter strategy, event planning, and developer outreach to improve technical participation and execution quality.
- Led end-to-end production of the GFG Student Chapter CGC-J website; coordinated across design, development, and content teams using Slack for task assignment and progress tracking.