

# Shrey Garg

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## TECHNICAL SKILLS

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

**Web Technologies:** React.js, Next.js, Node.js, Tailwind CSS, WebSockets

**Databases:** MySQL, MongoDB, PostgreSQL

**Tools & Platforms:** Git, GitHub, n8n, Figma, Adobe XD, Material UI

## PROJECTS

**AgriVision: AI-Integrated Web Portal for Farmers** | *Next.js, Drone Integration, ML Models* Oct 2024 - Mar 2025

- Engineered an AI-integrated web portal to display real-time data on agricultural conditions and field metrics.
- Incorporated drone technology with machine learning algorithms to forecast crop health and monitor environmental factors.
- Analyzed data from over **150 drone flights** and processed **300+ high-resolution images** per session.
- Empowered more than **200 farmers** with actionable insights for targeted decision-making.
- Lowered crop losses by **20%** through advanced analytics and automated alert systems.

**Chatmate: A Personalized AI Chatbot** | *React, Clerk Auth, AI Wrapper*

Aug 2024 - Sep 2024

- Created a personalized chatbot leveraging algorithms to enhance user interactions.
- Achieved **95% accuracy** in query interpretation by fine-tuning language models.
- Optimized average response time from **3.2 seconds** to **1.6 seconds** across **100 daily interactions**.

**School Management System** | *React, Node.js, MongoDB, Express.js*

July 2023 - December 2023

- Designed a comprehensive school management system to streamline administrative operations.
- Integrated modules for attendance tracking, grading, and notifications, managing data for **500+ students** across **10 classes**.
- Reduced administrative workload by **30%** and accelerated decision-making by **25%**.

## ACHIEVEMENTS

**1st Position in WEB-A-THON** by Arena in collaboration with Airev (On-Demand)

**Medical Device Hackathon (Medha 2.0) Winner** in Entrepreneur Category

**3rd Position in Hack-a-Throne 1.0:** Organized by AIESEC Jalandhar.

**Runner-up in the AI Quest Hackathon:** Hosted by IEEE CIS SBC, GHRCE, Nagpur.

Completed over **120 coding challenges** on LeetCode and GFG, refining analytical and programming skills.

## CERTIFICATIONS

**Cloud Computing Course:** NPTEL – IIT Kharagpur (2024)

**MongoDB Basic to Advanced:** MongoDB, Inc. (2024)

**Approximation Algorithms and Linear Programming:** Colorado Boulder – Coursera (2024)

**HTML, CSS, and JavaScript for Web Developers:** Johns Hopkins – Coursera (2023)

**Generative AI with Large Language Models:** DeepLearning.AI (2023)

## EDUCATION

**Lovely Professional University**

*Bachelor of Technology in Computer Science and Engineering*

Jalandhar, Punjab

*CGPA: 8.05, 2022 – 2026*

**Brahma Shakti Public School**

*Intermediate Education - 88.2%*

Rohini, New Delhi

*2020 – 2022*