

Amanpal Singh

Linkedin: <https://www.linkedin.com/in/amanpal-singh->

Github: <https://github.com/amanpalsingh22>

Email: amanpalsingh878@gmail.com

Mobile: +91-8872131699

SKILLS

- **Languages:** C++, C, JavaScript,
- **Frameworks:** HTML, CSS, React, Tailwind CSS
- **Tools/libraries:** MySQL, Bootstrap, Rest API, NoSQL, Anthropic API, OpenAI API, Git, GitHub
- **Soft Skills:** Problem-Solving Skills, Team Player, Project Management, Adaptability

EXPERIENCE

July 2025 – Jan 2026

Virtuous

- Built a role-based laboratory operations dashboard for animal research management using Next.js, React, and Material UI.
- Developed modules for animal management, housing management, inventory, directory, and request tracking to streamline day-to-day lab operations.
- Integrated frontend workflows with REST APIs for rack and cage movement requests, task handling, and operational data management.
- Implemented authentication-aware user journeys and dashboards for multiple stakeholders, including technicians, faculty, veterinarians, supervisors, and coordinators.
- Improved visibility into lab activities through responsive interfaces, analytics tracking, and structured dashboard navigation across complex workflows.

PROJECTS

- **Real-time Chat Application** June - July 2025
- Built a **real-time chat application** using **React + Tailwind CSS** with fully customizable **user-selectable themes** via a Tailwind theming plugin.
- Implemented **instant messaging** using **Socket.IO**, ensuring seamless real-time communication between users.
- Integrated **Cloudinary** for fast, secure **image and media uploads** inside chat conversations.
- Designed a clean, responsive **Tailwind UI** with dynamic theme switching and mobile-first layouts.

Technologies and Tools: HTML, CSS, TailwindCSS, ReactJs, DaisyUI, SocketIO

- **AI Quiz Generator** April - May 2025
- Implemented a feature to upload PDFs and generate quizzes from the content of the PDFs.
- Developed both backend and frontend using ReactJS and Tailwind CSS.
- The frontend provides a responsive and interactive user interface for quiz creation and management.
- Integrated ChatGPT API to generate questions based on the content, enhancing the quiz creation process.

Technologies Implemented: HTML, CSS, Bootstrap, JavaScript

CERTIFICATES

- Full Stack Web Development Bootcamp Feb 2025
- Data Structures and Algorithms using C++ April 2025
- Generative AI for everyone - DeepLearning.AI May 2024
- Generative AI with large language models — DeepLearning.AI and Amazon Web Services April 2024
- Introduction to large language models - Google Cloud April 2024

EXTRACURRICULARS

- **Social Work** July 2023
Volunteered to serve meals to visually impaired and differently-abled individuals at an NGO.
- **Event Management** March 2024
Volunteered in backstage management and supported event discipline coordination.

EDUCATION

- **Lovely Professional University** Punjab, India
Bachelor of Technology - Computer Science and Engineering since Sept 2022
- **M.R. Citi Public Sen. Sec. School** Balachaur, SBS Nagar
Intermediate (76.4%) April 2019 - March 2021
- **Balachaur Public Sen. Sec. School** Balachaur, SBS Nagar
Matriculation (94.1%) April 2017 - March 2019