

# Amanpal Singh

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## SKILLS

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- **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

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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

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- **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

- **Germany Quiz Image Trivia** May - June 2026
- Built a native Android quiz app using Kotlin and Jetpack Compose for German history, flags, football players, personalities, places, and culture.
- Implemented multiple quiz modes including image guessing, flashcards, 4/6 picture options, timer quiz, true/false quiz, daily quiz, and history timeline learning.
- Integrated REST API content loading, Firebase services, local progress tracking, recent submissions, levels, streaks, and notification scheduling.

Technologies Implemented: Kotlin, Jetpack Compose, Android SDK, Retrofit, Firebase

## CERTIFICATES

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- 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

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- **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

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