

Manpreet Singh

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Education

Wilfrid Laurier University

Master of Applied Computing (Co-op)

Sep 2025 – Present (Apr 2027)

Waterloo, Ontario, Canada

Chitkara University

Bachelor of Engineering (Computer Science)

Jul 2021 – Aug 2025

CGPA: 9.23

Work Experience

SalesCode.ai

Jun 2024 – Dec 2024

Software Engineer Intern

Gurugram, India

- Developed and deployed a Smart Advertisement Banner system featuring geo-location targeting and personalized recommendations, serving 500+ sales representatives and achieving a 25% increase in user engagement and 15% higher click-through rates.
- Optimized Flutter application performance through widget refactoring and lazy loading implementation, reducing startup time by 30%, memory consumption by 20%, and improving overall widget rebuild efficiency by 60%.
- Built real-time analytics dashboard in Flutter tracking engagement, conversion, call duration, and activity metrics for 500+ sales representatives, contributing to 20% improvement in team productivity

Projects

Qure | *Frontend* | *Backend*

Node.js | **Express** | **React Native** | **PostgreSQL** | **Socket.IO** | **Redis** | **Docker**

- Built Qure, a full-stack clinic queue management system with Node.js/TypeScript backend, React Native mobile app, and role-based access for patients, staff, and administrators.
- Built real-time digital queue system using Socket.IO and Redis, streamlining patient flow and eliminating repetitive status inquiries.
- Built queue lifecycle system with atomic database transactions and Dockerized multi-stage deployment, reducing deployment time by 40% and preventing data inconsistencies during concurrent operations.

MyTrackr | *Source Code*

Java | **Android** | **Firebase** | **Gemini SDK** | **ML Kit** | **Cloudinary**

- Built MyTrackr, an Android expense tracking app using ML Kit OCR and Gemini AI for automated receipt scanning, reducing manual data entry time by 80% and improving expense categorization accuracy.
- Implemented automated budget tracking with real-time expense aggregation and scheduled notifications, reducing manual entry time and enabling proactive expense management.
- Built CSV/PDF export functionality, multilingual localization for 4 languages, and dark mode theming with cloud synced receipt storage via Firebase and Cloudinary integration.

Study Adda | *Demo* | *Source Code*

ReactJS | **MongoDB** | **Express.js** | **Node.js**

- Built a full-stack EdTech platform using the MERN stack (MongoDB, Express.js, React.js, Node.js) with RESTful API design, achieving consistent 2-second page load times through optimized database queries and caching.
- Developed student portal with JWT authentication and Razorpay payment integration, enabling 100+ course enrollments with seamless video streaming via Cloudinary.
- Created instructor dashboard with course management, Chart.js analytics for enrollment tracking, and dynamic pricing system with time-based discounts.

Technical Skills

Languages: Java, JavaScript, TypeScript, Python, Dart, C++, SQL

Frameworks & Libraries: React.js, Next.js, Node.js, Express.js, React Native, Flutter, Spring Boot, Android SDK

Databases & Tools: PostgreSQL, MongoDB, Firebase, Prisma, Redis

Cloud & DevOps: AWS (EC2, S3, ECR), Docker

Developer Tools: Git, GitHub, Android Studio, Postman, Gradle

Core Competencies: RESTful API Design, Real-time Systems Database Design, Mobile Development, Data Structures & Algorithms, Object-Oriented Design, Performance Optimization