

Manpreet Singh

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Education

Wilfrid Laurier University

Master of Applied Computing (Co-op)

Sep 2025 – Present (April 2027)

Waterloo, Ontario, Canada

Chitkara University

Bachelor of Engineering (Computer Science)

July 2021 – August 2025

CGPA: 9.23

Work Experience

SalesCode.ai

June 2024 – December 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 a real-time Skill Dashboard analytics module in **Flutter** tracking 4 key performance metrics for **500+** sales representatives, contributing to a **20%** improvement in team productivity.

Projects

Qure | *Frontend* | *Backend*

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

- Built **Qure**, a real-time clinic queue management system with **Node.js/TypeScript** backend and **React Native** mobile app, implementing **JWT** authentication, role-based access control (**RBAC**) for 3 user types, and PostgreSQL database with Prisma ORM.
- Developed digital queue system with **Socket.IO** for live token updates and patient notifications, **BullMQ** for async image processing, and **Redis** caching to improve performance, featuring **geolocation** based clinic discovery with map integration.
- Implemented queue lifecycle management with **database** transactions for atomic token operations, **WebSocket** event handling for staff workflows (call/skip/complete tokens), and **Dockerized** deployment using multi-stage builds.

MyTrackr | *Source Code*

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

- Developed **MyTrackr**, an Android application in **Java** with **Firebase Auth**, **Firestore**, and **Cloudinary**, integrating **Google ML Kit** for OCR receipt scanning and **Gemini SDK** for AI powered text extraction and data standardization.
- Implemented automated **budget tracking** with real-time expense aggregation, scheduled notifications using Android **WorkManager**, and custom reminder system for 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, **Razorpay** payment integration, course filtering across categories, and **Cloudinary** based video streaming for course content delivery.
- Created instructor dashboard with **CRUD** operations for course management, **Chart.js** analytics for tracking enrollments and revenue, and dynamic pricing system with time-based discounts.

Technical Skills

Languages: Java, JavaScript, TypeScript, Python, Dart, C++, SQL, HTML5, CSS, XML

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

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

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

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

Core Competencies: RESTful API Development, Database Design, Data Structures & Algorithms, Object-Oriented Design, Agile/Scrum