

MANPREET SINGH

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EDUCATION

Wilfrid Laurier University, Waterloo, ON, Canada

Masters of Applied Computing

Sep 2025 — Apr 2027

GPA: 11/12

Chitkara University, Rajpura, Punjab, India

B.E in Computer Science

Jun 2021 — Aug 2025

GPA: 9.23/10

EXPERIENCE

Software Engineer Intern

Salescode.ai

Jun 2024 — Dec 2024

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.
- Collaborated with Agile team members to develop and maintain high-quality applications, ensuring solutions met both business and technical requirements.

PROJECTS

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

Dec 2025 — Dec 2025

- 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.
- Implemented real-time digital queue system using Socket.IO and Redis, reducing repetitive queue status inquiries and decreasing average patient wait time.
- 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.

MyTracker | Java, XML, Android, Firebase, Gemini SDK, MLKit, Cloudinary

Sep 2025 — Nov 2025

- Built MyTracker, 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 | React.js, MongoDB, Express.js, Node.js

Nov 2024 — Jan 2025

- 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 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.

SKILLS

Languages: Java, JavaScript, Typescript, Python, Dart, C++, SQL, XML

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, Microsoft Azure

Developer Tools: Git, Github, Android Studio, Postman, Gradle, Visual Studio

Core Competencies: RESTful API, Real-Time Systems, Database Design, Mobile Development, Data Structures & Algorithms, Object-Oriented Design, Performance Optimization, Agile Methodology, Problem Solving, Collaboration