

# Manpreet Singh

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## Education

### Wilfrid Laurier University

Master of Applied Computing (Co-op)

Sep 2025 – Apr 2027

GPA: 11/12

### Chitkara University

Bachelor of Engineering (Computer Science)

Jul 2021 – Aug 2025

GPA: 9.23/10

## Work Experience

### CoreAI Technologies

Software Developer

Jun 2025 – Nov 2025

Remote, India

- Developed comprehensive dashboard UI using Next.js and TanStack Query for tracking Biomarker Health Scores with customizable pinning, target-setting functionality, and visual charts comparing current scores against last 5 entries.
- Built Health Snapshot feature categorizing essential biomarkers across blood, heart, and performance recovery metrics with detailed information pages and category-based navigation for streamlined health monitoring.
- Worked on Android Smart Lock application in Kotlin using the Seam package, allowing NFC-based door access, thermostat control, and guest-pin management, leading to a seamless smart-home experience for users.

### SalesCode.ai

Software Engineer Intern

Jun 2024 – Dec 2024

Gurugram, India

- Built Smart Advertisement Banner system with geo-location targeting serving 1000+ sales reps, achieving 25% increase in engagement and 15% higher click-through rates through personalized recommendation.
- Optimized Flutter application performance via widget refactoring and lazy loading (30% faster startup, 20% less memory), and developed real-time skills analytics dashboard tracking engagement metrics for 1000+ sales reps.

## Projects

Qure | *Frontend* | *Backend*

NodeJS, ExpressJS, React Native, PostgreSQL, Socket.IO, Redis, Docker

- Developed full-stack clinic queue management system with Node.js/TypeScript backend, React Native mobile app, and role-based access control for patients, staff, and administrators.
- Implemented real-time digital queue system using Socket.IO and Redis for WebSocket connections, streamlining patient flow and eliminating repetitive status inquiries.
- Designed 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, XML, Android, Firebase, Gemini SDK, ML Kit, Cloudinary

- Developed 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, enabling proactive expense management and financial planning.
- Integrated CSV/PDF export functionality, multilingual localization for 4 languages, and dark mode theming with cloud-synced receipt storage via Firebase and Cloudinary.

Study Adda | *Demo* | *Source Code*

ReactJS, MongoDB, ExpressJS, NodeJS, Javascript

- Developed dual-portal system with JWT authentication, payment processing via Razorpay, and video streaming capabilities, including instructor dashboard with Chart.js analytics and Time based discounts.

## Technical Skills

**Languages:** Java, JavaScript, TypeScript, Python, Dart, C++, SQL, XML, Bash/Zsh

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

**Databases:** PostgreSQL, MongoDB, Firebase, Redis

**Tools & Technologies:** AWS (EC2, S3, ECR), Docker, Git, GitHub, Prisma, Postman, Gradle, Jira, Slack, Word, Excel, Outlook, Powerpoint, Linux, MacOS

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