

# Manpreet Singh

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## Education

<b>Wilfrid Laurier University</b> Master of Applied Computing (Co-op)	Sep 2025 – Apr 2027 GPA: 11/12
<b>Chitkara University</b> Bachelor of Engineering (Computer Science)	Jul 2021 – Aug 2025 GPA: 9.23/10

## Work Experience

<b>CoreAI Technologies</b> <i>Software Developer</i>	Jun 2025 – Nov 2025 Remote, India
<ul style="list-style-type: none"><li>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.</li><li>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.</li><li>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.</li></ul>	
<b>SalesCode.ai</b> <i>Software Engineer Intern</i>	Jun 2024 – Dec 2024 Gurugram, India
<ul style="list-style-type: none"><li>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.</li><li>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, improving overall productivity.</li></ul>	

## Projects

<b>Qure   Frontend   Backend</b>	<b>NodeJS, ExpressJS, React Native, PostgreSQL, Socket.IO, Redis, Docker</b>
<ul style="list-style-type: none"><li>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.</li><li>Implemented real-time digital queue system using Socket.IO and Redis for WebSocket connections, streamlining patient flow and eliminating repetitive status inquiries.</li><li>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.</li></ul>	
<b>MyTrackr   Source Code</b>	<b>Java, XML, Android, Firebase, Gemini SDK, ML Kit, Cloudinary</b>
<ul style="list-style-type: none"><li>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.</li><li>Implemented automated budget tracking with real-time expense aggregation and scheduled notifications, enabling proactive expense management and financial planning.</li><li>Integrated CSV/PDF export functionality, multilingual localization for 4 languages, and dark mode theming with cloud-synced receipt storage via Firebase and Cloudinary.</li></ul>	

<b>Study Adda   Demo   Source Code</b>	<b>ReactJS, MongoDB, ExpressJS, NodeJS, Javascript</b>
<ul style="list-style-type: none"><li>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.</li></ul>	

## Technical Skills

<b>Languages:</b> Java, JavaScript, TypeScript, Python, Dart, C++, SQL, XML
<b>Frameworks &amp; Libraries:</b> React.js, Next.js, Node.js, Express.js, React Native, Flutter, Spring Boot, GraphQL, Android SDK, Tanstack Query
<b>Databases:</b> PostgreSQL, MongoDB, Firebase, Redis
<b>Tools &amp; Technologies:</b> AWS (EC2, S3, ECR), Docker, Git, GitHub, Prisma, Postman, Gradle, Jira, Slack
<b>Core Competencies:</b> RESTful API Design, Real-time Systems, Database Design, Mobile Development, Data Structures & Algorithms, Object-Oriented Design, Microservices Architecture