

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 <i>Software Developer</i>	Jun 2025 – Nov 2025 Remote, India
<ul style="list-style-type: none">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 <i>Software Engineer Intern</i>	Jun 2024 – Dec 2024 Gurugram, India
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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, C++, SQL, Bash/Zsh

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

Databases: PostgreSQL, MongoDB, Firebase, Redis

Tools & Technologies: AWS (EC2, S3, ECR), Docker, Git, Jira, Slack, Word, Excel

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