

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 – Dec 2025 Remote
<ul style="list-style-type: none">Engineered a real-time Dashboard UI using Next.js and TanStack Query to visualize 15+ biomarkers with customizable pinning, target-setting, and interactive charts tracking recent entries.Developed Health Snapshot categorization system organizing biomarkers across blood, cardiovascular, and performance metrics with detailed information pages, simplifying health tracking workflows.Enhanced production Android Smart Lock application in Kotlin using Seam SDK, implementing 2 new features and resolving 15+ bugs across NFC door access, thermostat control, and guest-pin management.	

SalesCode.ai <i>Software Engineer Intern</i>	Jun 2024 – Dec 2024 Gurugram, India
<ul style="list-style-type: none">Developed geo-targeted advertisement banner system using Spring Boot, custom Flutter widgets, MySQL, and AWS EC2 deployment, increasing click-through rates by 15% across 100K+ sales reps.Optimized Flutter app performance through widget refactoring and lazy loading patterns, reducing memory footprint from 89MB to around 62MB, improving overall app performance.Collaborated with 5 engineers in Agile sprints to deliver 5+ production Flutter features, implementing unit tests and incorporating code review feedback reducing post-release bugs.	

Projects

Qure <i>Frontend Backend</i>	Node.js, Express.js, 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 supporting patient, staff, and administrator workflows with JWT-based authentication.Engineered real-time queue system using Socket.IO room-based architecture for instant updates and implemented fault-tolerant token management using atomic PostgreSQL transactions to prevent race conditions.Built asynchronous job processing pipeline using BullMQ and Redis for Cloudinary image uploads, containerized with Docker and Docker Compose for local development, and deployed to Render cloud platform.	

MyTrackr <i>Source Code</i>	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, multilingual support, CSV/PDF export, and cloud-synced receipt storage, simplifying financial management for users.	

Study Adda <i>Demo Source Code</i>	React.js, MongoDB, Express.js, Node.js, Javascript
<ul style="list-style-type: none">Built student and instructor portal LMS using React.js, Node.js, Express.js, and MongoDB with JWT auth, Razorpay payments, video streaming, instructor analytics, and time-based discounts.Implemented course creation, enrollment tracking, progress monitoring, and Cloudinary media management.	

Technical Skills

Languages: Java, JavaScript, TypeScript, Python, Kotlin, 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, Unit Testing (Junit & Jest)