Manpreet Singh

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Education

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

Work Experience

CoreAI Technologies — **Jun 2025 – Nov 2025**
Software Developer — *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 — **Jun 2024 – Dec 2024**
Software Engineer Intern — *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.
- Collaborated with 5 engineers in Agile sprints to deliver 5+ Flutter features on time, reducing bug rate by 15%.

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, multilingual support, dark mode, CSV/PDF export, and cloud-synced receipt storage for seamless financial management.

Study Adda | *Demo* | *Source Code*   **ReactJS, MongoDB, ExpressJS, NodeJS, Javascript**

- Developed dual-portal full-stack LMS with JWT authentication, Razorpay payments, and video streaming, including instructor dashboards with analytics and time-based discounts.
- Built responsive student/instructor interfaces with course creation, enrollment, progress tracking, and cloud media management using React, Node.js, Express, MongoDB, and Cloudinary.

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