

Manpreet Singh

 (416) 930-4426 sing2470@mylaurier.ca linkedin.com/in/manpreet-
 github.com/Manpreet-Singh-Kamboj

Education

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| 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

SalesCode.ai Jun 2024 – Dec 2024
Software Engineer Intern Gurugram, India

Projects

Qure | Frontend | Backend **Node.js, Express.js, 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 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 | 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, CSV/PDF export, and cloud-synced receipt storage, simplifying financial management for users.

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| Study Adda Demo Source Code | 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)