

Manpreet Singh

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

Education

Wilfrid Laurier University Master of Applied Computing (Co-op)	Sep 2025 – Present GPA: 3.9 / 4
Chitkara University Bachelor of Engineering (Computer Science)	Jul 2021 – Aug 2025 GPA: 3.7 / 4

Work Experience

CoreAI Technologies <i>Software Developer</i>	Jun 2025 – Dec 2025 <i>Remote</i>
<ul style="list-style-type: none">Built health tracking dashboard with Next.js and TanStack Query for data fetching and caching, visualizing biomarker trends using Recharts with customizable pinning, target thresholds, and metric categorization.Developed Health Snapshot categorization system organizing biomarkers across blood, cardiovascular, and performance metrics with detailed information pages, simplifying health tracking workflows.Implemented guest PIN access feature in production Android Smart Lock app using Kotlin and Seam SDK, enabling temporary door access with NFC authentication, PIN validation, and expiration handling logic.	

SalesCode.ai <i>Software Engineer Intern</i>	Jun 2024 – Dec 2024 <i>Gurugram, India</i>
<ul style="list-style-type: none">Built geo-targeted banner system using Spring Boot backend with AWS S3 storage and EC2 deployment with auto-scaling, and custom Flutter widgets, serving 100K+ sales reps, achieving 15% higher CTR.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 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, Prisma, 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.Designed PostgreSQL schema with Prisma ORM implementing indexed queries for optimization, built asynchronous job pipeline using BullMQ and Redis, containerized with Docker, and deployed on Render.	

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 workflow, student enrollment tracking, video progress monitoring with playback tracking, and Cloudinary media management for lecture uploads.	

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 with alarm-based expiry notifications, reducing manual data entry time by 80%.Implemented budget tracking with real-time aggregation, CSV/PDF export, cloud storage, and JUnit test coverage.	

Technical Skills

Languages: JavaScript, TypeScript, Java, Python, Kotlin, SQL, C++, Bash/Zsh

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

Databases: PostgreSQL, MongoDB, Firebase, Redis

Tools & Technologies: AWS (EC2, S3), Docker, Git, Jira

Core Competencies: Full-Stack Development, RESTful API Design, Database Design & Optimization, Real-time Systems, Authentication & Authorization, Unit Testing (Jest & JUnit)