# Manpreet Singh

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## 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

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

- Developed and deployed Smart Advertisement Banner system with geo-location targeting and personalized recommendations, serving over 500 sales representatives and achieving 25% increase in user engagement and 15% higher click-through rates.
- Optimized Flutter application performance through widget refactoring and lazy loading implementation, reducing startup time by 30%, memory consumption by 20%, and improving overall widget rebuild efficiency by 60%.
- Built real-time analytics dashboard in Flutter tracking engagement metrics, call duration, and activity data for over 500 sales representatives, enabling data-driven decision making that contributed to 20% improvement in team productivity.
- Collaborated with 5 engineers in Agile sprints, enabling on-time delivery of 5+ new Flutter features and 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.

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

- Developed full-stack EdTech platform using the MERN stack with RESTful API design, achieving consistent 2-second page load times through optimized database queries and caching strategies.
- Implemented student portal with JWT authentication and Razorpay payment integration, enabling over 100 course enrollments with seamless video streaming via Cloudinary CDN.
- Created instructor dashboard with course management capabilities, Chart.js analytics for enrollment tracking, and dynamic pricing system with time-based discounts.

**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 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.

## Technical Skills

**Languages:** Java, JavaScript, TypeScript, Python, Dart, C++, SQL, XML

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

**Databases:** PostgreSQL, MongoDB, Firebase, Redis

**Tools & Technologies:** AWS (EC2, S3, ECR), Docker, Git, GitHub, Prisma, Postman, Gradle, Jira, Slack

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