

Manpreet Singh

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Education

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| Wilfrid Laurier University Master of Applied Computing (Co-op) | Sep 2025 – Present (Apr 2027) Waterloo, Ontario, Canada |
| Chitkara University Bachelor of Engineering (Computer Science) | Jul 2021 – Aug 2025 CGPA: 9.23 |

Work Experience

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| SalesCode.ai <i>Software Engineer Intern</i> | Jun 2024 – Dec 2024 Gurugram, India |
| <ul style="list-style-type: none">Developed and deployed a Smart Advertisement Banner system featuring geo-location targeting and personalized recommendations, serving 500+ sales representatives and achieving a 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, conversion, call duration, and activity metrics for 500+ sales representatives, contributing to 20% improvement in team productivity | |

Projects

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| Qure Frontend Backend | Node.js Express React Native PostgreSQL Socket.IO Redis Docker |
| <ul style="list-style-type: none">Built Qure, a full-stack clinic queue management system with Node.js/TypeScript backend, React Native mobile app, and role-based access for patients, staff, and administrators.Built real-time digital queue system using Socket.IO and Redis, streamlining patient flow and eliminating repetitive status inquiries.Built queue lifecycle system with atomic database transactions and Dockerized multi-stage deployment, reducing deployment time by 40% and preventing data inconsistencies during concurrent operations. | |

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| MyTrackr Source Code | Java Android Firebase Gemini SDK ML Kit Cloudinary |
| <ul style="list-style-type: none">Built MyTrackr, an 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, reducing manual entry time and enabling proactive expense management.Built CSV/PDF export functionality, multilingual localization for 4 languages, and dark mode theming with cloud synced receipt storage via Firebase and Cloudinary integration. | |

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| Study Adda Demo Source Code | ReactJS MongoDB Express.js Node.js |
| <ul style="list-style-type: none">Built a full-stack EdTech platform using the MERN stack (MongoDB, Express.js, React.js, Node.js) with RESTful API design, achieving consistent 2-second page load times through optimized database queries and caching.Developed student portal with JWT authentication and Razorpay payment integration, enabling 100+ course enrollments with seamless video streaming via Cloudinary.Created instructor dashboard with course management, Chart.js analytics for enrollment tracking, and dynamic pricing system with time-based discounts. | |

Technical Skills

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

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

Databases & Tools: PostgreSQL, MongoDB, Firebase, Prisma, Redis

Cloud & DevOps: AWS (EC2, S3, ECR), Docker

Developer Tools: Git, GitHub, Android Studio, Postman, Gradle

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