Manpreet Singh

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Education

Wilfrid Laurier University   **Sep 2025 – Present (April 2027)**
Master of Applied Computing (Co-op)   Waterloo, Ontario, Canada
Chitkara University   **July 2021 – August 2025**
Bachelor of Engineering (Computer Science)   CGPA: 9.23

Work Experience

SalesCode.ai   **June 2024 – December 2024**
Software Engineer Intern   *Gurugram, India*
- Developed and deployed **Smart Ad Banners** with **geo-targeting** and personalized recommendations for **500+** sales reps, increasing engagement by **25%**, click-through rates by **15%**, and overall promotion visibility.
- Enhanced Flutter application **performance** by refactoring **15+ reusable widgets** and implementing lazy loading on HomeScreen, reducing app startup time by **30%**, decreasing memory consumption by **40MB**.
- Created and delivered a Skill Dashboard analytics module in **Flutter** for **500+** sales representatives, providing real-time insights on 4 key performance metrics, leading to a **20%** improvement in team productivity.

Projects

MyTrackr - Receipt and Budget Manager | *Source Code*   **Java | Android SDK | Firebase | ML Kit**
- Building an Android application in **Java** with **Firebase Authentication** (Google SSO), **Firestore database**, and **Firebase Storage** for receipt scanning, cloud-based storage, and personal budget tracking.
- Integrating **Google ML Kit OCR** for real-time text recognition from camera and gallery images, extracting structured data (store, items, prices) and applying **AI-powered formatting** to standardize receipts across **10+ layouts**.
- Developing budget management with automatic expense tracking, monthly monitoring, spending alerts, **AI-driven savings tips**, and **PDF export** for tax filing and records.

Study Adda | *Demo* | *Source Code*   **ReactJS | MongoDB | Express.js | Node.js**
- Architected a full-stack **MERN** EdTech platform using **RESTful APIs**, **MongoDB**, **Express.js**, and **React.js**, implementing a 3-tier architecture for scalability and achieving optimized performance with **2s** page loads.
- Implemented a student portal with **JWT** authentication, **Razorpay** payment gateway integration, advanced course filtering across **10+** categories, and **Cloudinary** video streaming for seamless content delivery.
- Built an instructor **dashboard** with full **CRUD** operations for course management, **Chart.js** visualizations for enrollment analytics, revenue tracking features, and a dynamic discount system with time-based pricing controls.

Facial Recognition Attendance System | *Source Code*   **Pandas | Tkinter | NumPy | Python**
- Engineered a facial recognition attendance system using **Python**, **OpenCV**, and a face recognition library, achieving **95%** facial detection accuracy, with **NumPy** for image processing and **Pandas** for attendance record management with **CSV** export.
- Designed a **Tkinter** desktop GUI with a student registration module and real-time camera feed for live facial detection, reducing attendance logging time by **85%**.

Certifications

Android Study Jams — Built an Android chatbot app using **Java**, demonstrating Android fundamentals and UI integration.
Job Ready Cohort (Sheriyans Coding School) — Gained practical experience in **Frontend**, **Backend**, and **DevOps** using **AWS**.

Technical Skills

Languages: Java, JavaScript, TypeScript, Python, Dart, SQL, C++, HTML5, CSS, XML

Developer Tools: Git, GitHub, Android Studio, Maven, Gradle, Postman, Jira, Confluence, Firebase, Prisma, Supabase

Libraries/Frameworks: Spring Boot, Android SDK, React.js, Next.js, Node.js, Express.js, React Native, Flutter, PostgreSQL, MongoDB, Pandas, NumPy

Cloud & DevOps: AWS (EC2, S3, Lambda), Docker, CI/CD, Agile/Scrum Methodology

Core Competencies: Data Structures and Algorithms, Object-Oriented Design, RESTful API Development, Database Design, Agile/Scrum, Problem Solving