Manpreet Singh

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Education

Wilfrid Laurier University — **Sep 2025 – Present**
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*

- Constructed and deployed **Smart Advertisement Banners** which provided dynamic and local promotions based on user preferences and location which increased user engagement by **25%** and user click-through rate by **15%**.
- Reduced app startup time by **30%**, optimized memory usage, and decreased widget rebuilds by redesigning the HomeScreen and refactoring reusable Widgets in **Flutter**.
- Developed a **Skill Dashboard** in Flutter for the sales app, enabling sales representatives to quickly analyze monthly performance and gain actionable insights from Sales Score, Skill Score, Average Drop Size, and Monthly SKU units sold.

Projects

Resumify – In Development — **Next.js (Web) | Spring Boot (Backend) | Artificial Intelligence**

- Developing an **AI-powered** resume builder that generates **ATS-friendly** resumes, enabling job seekers to quickly tailor their applications based on job descriptions by leveraging AI-driven skill and experience matching.
- Building backend services with **Spring Boot** and **SpringAI** to generate personalized resumes that match candidate skills and experiences to job requirements, increasing ATS compatibility and application effectiveness.
- Developing a **Next.js** frontend with **Spring Security** authentication, ensuring secure access to personalized resume data while enabling real-time editing and a seamless, responsive user experience.

Study Adda | *Demo* | *Source Code* — **ReactJS | MongoDB | Express.js | Node.js**

- Developed an entire **EduTech** platform using **ReactJS**, **Node.js/Express.js**, and **MongoDB**, enabling smooth interactions between students and instructors and improving learning engagement.
- Developed student-facing functionality including **personal dashboards, course discovery, checkout, and integrated course content delivery** with videos leveraging **Cloudinary**, enabling students to efficiently browse, select, and complete courses while tracking progress and engagement.
- Built an instructor-facing dashboard for **course management, enrollment tracking, and revenue monitoring**, featuring visual pie charts for student enrollment and course income, tools to create and manage courses, and configurable limited-time discounts, enabling instructors to maximize engagement, revenue, and overall course performance.

Facial Recognition Attendance System | *Source Code* — **Pandas | Tkinter | Numpy | Python**

- Automated student attendance by capturing and registering facial images with student IDs, leveraging **NumPy** for efficient image processing and **Pandas** for real-time tracking, enabling accurate recognition and instant updates.
- Developed a **Tkinter GUI** for facial-recognition-based attendance, featuring intuitive input fields and action buttons for registering and scanning faces, resulting in accurate and efficient student attendance management.

Leadership

Skill Dashboard – Development & Client Presentation — **Nov 2024**

- Delivered a customer-facing presentation of the **Skill Dashboard** feature at SalesCode.ai, emphasizing its technical strengths and contribution to business outcomes.

Project Leadership — **Dec 2023**

- Showcased the **Study Adda** (MERN Stack) project to peers, illustrating full-stack development expertise and real-world application.

Technical Skills

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

Developer Tools: Postman, Git, Jira, Confluence, Prisma, Supabase, Firebase

Libraries/Frameworks: Spring Boot, React.js, PostgreSQL, MongoDB, Next.js, Node.js, Express.js, Flutter, React Native, Tkinter, Pandas, Numpy