

Dharm Patel

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EDUCATION

BSc in Computer Science & Honours BBA Double-Degree | GPA: 3.8 Sep. 2023 – Apr. 2027
Wilfrid Laurier University | Co-op Program Waterloo, ON

- Relevant Courses: Data Structures & Algorithms, Operating Systems, Algorithm Analysis, Databases

EXPERIENCE

Incoming Software Engineer Intern May 2026
RBC Toronto, ON

- Will be working on front-end development on the Security team using **Java**, **JavaScript**, **React**, and **Spring Boot**.

Software Engineer Intern Jan. 2026 – Apr. 2026
Manulife Toronto, ON

- Reduced onboarding ramp-up time by 25% by building an AI-powered chatbot using a **RAG pipeline** and **vector database** to automate access requests and common onboarding queries via **Microsoft Copilot Studio**.
- Improved endpoint reliability and reduced invalid API requests by 35% by implementing **FastAPI endpoints** for internal AI platforms, building backend business logic, request validation, and database operations.
- Decreased post-deployment bugs by 40% by automating build and deployment workflows through **Jenkins CI/CD pipelines** and validating deployed endpoints with Postman, increasing release confidence across sprint cycles.

Research Assistant Sep. 2025 – Dec. 2025
Wilfrid Laurier University Waterloo, ON

- Accelerated model experimentation timelines by 30% by developing automated data pipelines in **Python** to deliver clean, structured inputs for **deep learning** and **LLM research** on intelligent transportation systems.
- Consolidated 10+ transportation datasets from public APIs, web sources, and **PostgreSQL databases**, enabling comprehensive exploratory analysis and feature evaluation for ML workflows.
- Improved downstream model data quality by 25% by cleaning and validating 500K+ records using **Pandas** and **NumPy** through standardization, imputation, and deduplication techniques.

Software Engineer Intern Jan. 2024 – Apr. 2024
Riipen Toronto, ON

- Delivered 3 web apps using **HTML**, **CSS**, and **JavaScript** with responsive UI and backend integration.
- Improved page load time by 30% by optimizing **SQL** queries and **MySQL** indexes on high-traffic pages.
- Built a dashboard using JavaScript and **Chart.js** monitoring **API latency**, cutting manual checks by 40%.

PROJECTS

Cortex – HackCanada Finalist | *React, Next.js, TypeScript, Three.js, FastAPI, Python, Google Gemini*  [Demo](#)

- Built Cortex, a full-stack AI system that ingests **GitHub repositories**, PDFs, and raw text, then scores technical proficiency across 51 computer science categories using a **FastAPI** pipeline with **Google Gemini**.
- Engineered a profile aggregation workflow that merged multi-source skill evidence over time using **EMA-based weighting**, allowing stronger sources such as GitHub repositories to influence persistent user profiles more heavily than text submissions.
- Developed an interactive **Next.js** and **Three.js** frontend that mapped skill categories into animated brain regions, and integrated a chatbot that generated SWOT analyses, learning paths, and skill-gap insights from each user's profile data.

HawkLifts | *React, Node.js, Express, MongoDB, OpenAI API*

- Developed a full-stack fitness platform that displays real-time gym occupancy, helping students optimize workout times while supporting workout logging, nutrition tracking, and progress photo uploads.
- Built the front end in **React** and implemented **RESTful APIs** with **Node.js** and **Express** to handle user check-ins, workout data, and media uploads, with **MongoDB** for data storage.

TECHNICAL SKILLS

Languages: Java, Python, SQL, C, C++, C#, VBA, TypeScript, JavaScript, HTML, CSS, R

Libraries & Frameworks: React, Node.js, Pandas, Spring Boot, Flask, Express, FastAPI, Tailwind, Next.js

Developer Tools: Git, Docker, Unix/Linux, AWS, Azure, Tableau, Power BI, Jira, Confluence, Postman, Jenkins

Certifications: Microsoft AZ900, Fortinet FCF, J.P. Morgan Software Engineering