

# Dharm Patel

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## EDUCATION

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**BSc in Computer Science & Honours BBA Double-Degree** | **GPA: 3.8** Sep. 2023 – Apr. 2028

*Wilfrid Laurier University | Co-op Program*

*Waterloo, ON*

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

## EXPERIENCE

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**Software Engineer Intern** Jan. 2026 – Present

*Manulife*

*Toronto, ON*

- Building an **AI powered onboarding chatbot** using **Microsoft Copilot Studio** to automate access requests, setup guidance, and common onboarding questions, reducing onboarding ramp up time for contributors by 25%.
- Implementing **FastAPI endpoints** for internal AI platforms by implementing backend business logic, request validation, and database operations, reducing invalid API requests by 35% and improving endpoint reliability.
- Developing thorough **Pytest suites** with 30 plus unit tests and validating deployed endpoints using **Postman**, reducing post deployment bugs by 40% and increasing release confidence during sprint cycles.

**Research Assistant** Sep. 2025 – Dec. 2025

*Wilfrid Laurier University*

*Waterloo, ON*

- Developed data pipelines in **Python** to enable **deep learning** and **LLM** research for intelligent routing and transportation systems, delivering clean, structured inputs for model experimentation
- Collected and integrated transportation data from public APIs and web sources, combining datasets stored in **PostgreSQL** and flat files to enable exploratory analysis and feature evaluation for ML workflows.
- Cleaned and validated large datasets using **Pandas** and **NumPy** through standardization, imputation, and deduplication, improving data quality for downstream machine learning and LLM experiments.

**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

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**Cortex – HackCanada 2026** | *React, Next.js, TypeScript, Three.js, FastAPI, Python, Google Gemini*

- 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.

**LeetSync** | *Python, GraphQL, Git, CLI*

- Built a **Python** automation tool that fetched accepted LeetCode submissions through the LeetCode **GraphQL API** and pushed them to **GitHub**, eliminating manual copy-paste and standardizing archival of solved problems.
- Implemented state tracking and an interactive **CLI** approval flow that detected previously processed submissions, avoided duplicate pushes, and let users review and selectively commit new solutions before syncing to GitHub.

## TECHNICAL SKILLS

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**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

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