

# Dhairya Patel

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## EDUCATION

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### Wilfrid Laurier University

Sept 2022 - April 2027

Honors Bachelor of Science in Computer Science (BSc) & Honors Bachelor of Business Administration (BBA), Computer Science

## EXPERIENCE

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### Co-Founder

Nov 2025 - Present

#### Rivo Careers

- Architected and scaled a full-stack career platform end-to-end, managing deployment and API design across 64 routes covering six core product domains.
- Engineered a real-time AI mock interview system featuring a lip-synced humanoid avatar, live speech transcription, and automated performance evaluation across behavioral, technical, and communication categories.
- Built a two-phase ML job matching engine that combines NLP-based resume scoring with behavioral signals from user activity to deliver personalized role recommendations with configurable strictness.
- Orchestrated an automated job aggregation pipeline that sources, deduplicates, and validates thousands of Canadian internship listings daily, maintaining accuracy through a multi-layer expiry detection system.

### Network Engineer Co-op

Sept 2025 - Dec 2025

#### Waterloo Regional Health Network (WRHN)

- Automated system deployment and imaging processes using PowerShell and Bash scripts, enhancing setup efficiency across 100+ clinical endpoints.
- Resolved command-line troubleshooting and terminal-based support for network authentication, AD account issues, and remote desktop connectivity, reducing ticket resolution time by 30%.
- Collaborated with IT infrastructure teams to troubleshoot and optimize internal systems and documented command-line workflows to standardize operations.

### Software Developer Intern

March 2025 - November 2025

#### Bio-Excel Pharma

- Engineered and optimized the relational database architecture powering the company's CRM, refactoring SQL queries and indexing strategies to reduce lookup latency across invoicing, purchase order, and inventory tables.
- Built Python-based ETL pipelines to automate data synchronization between the CRM and sales, eliminating redundant manual entry and standardizing record integrity.
- Integrated REST APIs across backend services to streamline data flow between sales pipelines and inventory management, improving end-to-end data consistency and reducing reconciliation errors.

## PROJECTS

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### PAW'd / Full Stack Application

- Engineered a full-stack application enabling pet owners to manage and log vaccination and medication schedules, built with React on the frontend, Node.js and Express for backend REST APIs, and Supabase for persistent data storage.

### Financial Portfolio Optimization / Machine Learning

- Developed a Python-based ML model to optimize financial portfolios, improving the Sharpe ratio by 12% using real-time Yahoo Finance API data, and built a RESTful Flask web application that delivers personalized investment recommendations based on user risk inputs.

### Excel Grading Application / Windows Application Programming

- Built a desktop grading tool using Excel Macros, VBA, XML Database, and Microsoft SQL integration, engineering modular error handling that harmonizes with databases, generates dynamic charts, and produces comprehensive Word reports.

## TECHNICAL SKILLS

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**Languages:** Python, Java, JavaScript, TypeScript, HTML/CSS, C, C++, C#, SQL, R, VBA, Assembly, Bash, PowerShell, HTML, CSS

**Frameworks:** Next.js, React, Node.js, Express, FastAPI, Flask, REST APIs, Scikit-learn, TensorFlow, PyTorch, Apache Spark, Spark, Machine Learning, REST

**Developer Tools:** Git, GitHub, VS Code, SQL Server, BigQuery, Power BI, Tableau, Figma, Supabase, Vercel, Azure, GCP, CI/CD, Active Directory, Remote Desktop, Windows Imaging

**Other:** Stripe, Google Cloud Run, WebRTC, Data Warehousing, RAG, Prompt Engineering, LLM Integration, NLP, Semantic Embeddings, Vector Search, Speech-to-Text, Text-to-Speech, Computer Vision, Real-Time AI Inference, API Design, Invoicing, Grading

## CERTIFICATIONS

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- Google Specialization | Digital Marketing and E-Commerce Professional
- Meta Professional Certification | Back-End Developer