DEV PATEL

4th year Computer Science Student with 4 Co-op experience

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EDUCATION

Wilfrid Laurier University   **September 2021 − August 2025**
Honors BSc Computer Science, Concentration Big Data (Co-op), GPA - 3.4   *Waterloo, ON*

- **Teaching Assistant:** Data Structures and Algorithms, OOPS, Python programming, Microprocessors, and Physics
- **Certifications:** Azure AI Fundamentals (Microsoft), AWS Cloud Practitioner (AWS), Python for Data Science (IBM), Harvard CS 50 (edX), Algorithmic Trading and Stock Essentials (LinkedIn), Fixed Income Securities (Udemy)
- **Extra-Curricular: President**, Laurier Cricket Club, and **Vice President**, Laurier Robotics

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TECHNICAL SKILLS

- **Languages:** Python, Java, JavaScript (ES6), TypeScript, HTML, CSS
- **Database Systems:** MySQL, MongoDB, MSSQL Server, PostgreSQL
- **Technologies/Frameworks:** ReactJS, Node.js, ExpressJS, Flask, Django, Vue.js, RESTful APIs, Docker, Kubernetes
- **Cloud Platforms:** AWS, GCP, Azure, Heroku
- **Developer Tools:** CI/CD Pipelines, Git (GitHub/GitLab), Jenkins, Bash, UNIX/Linux, Windows, SDLC
- **Agile Development:** Scrum, Sprints, Daily Standups
- **Security:** HashiCorp Vault, AWS Secrets Management, Secure Application Development

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EXPERIENCE

Toronto Stock Exchange (TMX Group)   **May 2024 − Present**
Network (Software) Engineer Intern   *Toronto, ON*

- Automated report generation and job scheduling using **Flask**, improving network monitoring and aligning with **Agile** practices.
- Built **data pipelines** integrating **on-prem** and **cloud systems (AWS)**, increasing **throughput** by **30%** and supporting real-time trading operations.
- Deployed **Docker containers** to productionise and scale pipelines, boosting **data export efficiency** by **22%** and enhancing trading operations' **stability and security**.

Savi Finance   **January 2024 − May 2024**
Cloud DevOps Engineer Intern   *Waterloo, ON*

- Developed a **cloud vault solution** for API and AWS secrets, enhancing system **security** and ensuring SDLC compliance.
- Integrated **HashiCorp Vault** with Kubernetes on **AWS**, improving **deployment efficiency** by **25%**.
- Authored developer **documentation** on **Confluence**, promoting cross-team collaboration and aligning with **Agile** practices.

SignAgent Inc   **September 2023 − December 2023**
Full Stack Software Developer Intern   *Burlington, ON*

- Integrated **Stripe API** with Django/Vue.js, improving **payment processing speed** by **33%** and enhancing user experience.
- Optimized application performance through **asynchronous processing** and caching, increasing system responsiveness by **15%**.
- Participated in **sprints** and daily scrums, contributing to incident management and team efficiency improvements.

Brandon Consulting   **May 2023 − September 2023**
Software Developer Intern   *Remote*

- Developed a job posting web app using **ReactJS**, **Python**, and **MongoDB**, increasing user engagement by **50%**.
- Optimized **backend infrastructure** using Python/MongoDB, improving platform performance and scalability.
- Collaborated with cross-functional teams to resolve technical challenges, boosting project efficiency and team collaboration.

PROJECTS

Forex Trading Bot ⧉ | Python, React.js, REST, MongoDB

- Developed an **automated trading application**, featuring **real-time trade execution** based on **candlestick pattern analysis** and integrated with the **OANDA API** for precise, data-driven trading strategies, integrating **Quantitative Technology**.
- Architected the bot with a **microservices approach**, utilizing **RESTful APIs** and **Docker** for **scalable and efficient deployment**.

FinBot: Finance News Research Tool ⧉ | Python, LangChain, OpenAI, FAISS, Streamlit

- Developed a **news research tool** using Python, LangChain, and OpenAI LLM to **retrieve financial insights** from article URLs, utilizing **FAISS** for **fast information retrieval**.
- Built a **user-friendly web application** with **Streamlit**, allowing users to **input URLs and interactively query financial data** with accurate and relevant results, enhancing research capabilities.