



SUMMARY

Full Stack Developer, with experience building responsive, user-friendly web applications. Strong background in e-commerce interfaces, UI/UX design, and API development. Fluent in French.

EDUCATION

Wilfrid Laurier University

Bachelor of Science

Honours Computer Science and Physics

2017 - 2021

- Comprehensive program which included software engineering and web development courses.
- Agile development, WPAG accessibility standards, and other web development best practices were heavily emphasized during coursework.
- Built apps using Python (Django), React, WordPress, SQL, Java and PHP as part of my coursework.

Michigan State University

Master of Science

Electrical and Computer Engineering

May 2025 - April 2026

- Many programming and web development courses with a focus on building and deploying solutions within stringent aesthetic, latency, scalability and accessibility guidelines.
- Coursework included Python(Flask) applications with heavy use of TypeScript in the frontend. Docker, Google Cloud, Linux and git were also frequently used.
- Achieved a perfect grade in my senior level Web Application Architecture and Development course.

SKILLS

- Proficient in Python, C#, SQL, AL, Java, C, C#, Kotlin, PHP, VHDL, VBA
- Web development using JS, TypeScript, NodeJS, React, Angular, WordPress, VueJS, Liquid, Laravel and Django
- Secure and responsible use AI tools such as Claude
- Configuration and development of systems in Business Central, Power BI, NetSuite, and Shopify
- CI/CD using GitHub and GitLab
- Comprehensive software testing using Cypress
- Building mockups and assets using Figma and Photoshop
- Design and implementation of RESTful and GraphQL APIs, including integration with frontend and third-party services
- Creating and manipulating databases using Laravel (PHP), MySQL, PostgreSQL, MongoDB
- Deploying and maintaining cloud applications with AWS and Google Cloud.
- Leveraging the .NET framework for seamless integration
- Containerization with Docker and deployment to Kubernetes environments
- Statistical analysis for machine learning

PROJECTS AND CERTIFICATIONS

Tesla Stock Price AI Model

- Model that predicts changes in Tesla's stock price according to Elon Musk's tweets.

Autonomous Vehicle Control Agents

- Developed and optimized intelligent control agents to navigate simulated autonomous vehicles using neural networks and genetic algorithms.

University of Toronto Certified XR Developer

- Proficient in XR development, specializing in C# for creating immersive Virtual and Augmented Reality experiences.

AWS Certified Cloud Practitioner

- Demonstrates knowledge of AWS services and cloud computing concepts.

PROFESSIONAL EXPERIENCE

Full Stack Developer | PC Mechanix

December 2023 - January 2026

Middleware to facilitate inventory synchronization between physical locations and online storefronts:

- Worked with client to write a list of requirements and agile development roadmap.
- Developed a Python backend to integrate with Shopify's GraphQL and REST APIs.
- Created REST API web services in Business Central that allowed me to read product, order and inventory data.
- Used FastAPI and uvicorn to create an API to monitor job statuses, and implemented WebSocket support for real-time control and status updates.
- Worked with the e-commerce team to build a mock-up of the front end in Figma.
- Developed a frontend dashboard with React that allowed users to view job statuses and send commands in a GUI.
- The user friendly front end had relevant documentation built into each page and command at a glance.
- Used AWS PostgreSQL (RDS) for logging and caching.
- Containerized this application using Docker, and deployed first to an AWS EC2 instance, then to the client's existing servers using Kubernetes.
- Implemented automated testing using pytest (backend) and Cypress (frontend).
- On the client's request, many features were added, such as product metadata synchronization, automatic shipping updates, financial reporting and the automation of many tedious daily tasks.
- Designed and implemented data pipelines for third-party integrations (Mirakl, Walmart Marketplace, TechShip), enabling synchronization of product, order, and fulfillment data.



PROFESSIONAL EXPERIENCE

Full Stack Developer | PC Mechanix

December 2023 - January 2026

Integrated Shopify into the backend of a client's custom e-commerce system.

- Familiarized myself with the client's existing backend, which was a dotnet system connected to a PostgreSQL database.
- Added Shopify integration to their backend using its REST and GraphQL APIs. The code was written in C# and relied on the ShopifySharp library.
- Added new webhooks to intercept new orders and fulfilments in real time.
- Scheduled jobs to synchronize product inventory, customer information and miscellaneous data related to the new storefront.

Developed, managed and improved clients' Shopify and WordPress websites.

- Built various frontend pages and integrated them into the clients' customer facing websites. Used tools such as Figma, React, Angular, CSS and Liquid.
- Managed content deployments for various web pages, as well as the addition of many UI features such as:
 - Location based delivery options, integrated with warehouse management systems in order to minimize shipping costs.
 - Landing pages, product pages (PDP and PLP), navigation bars, pop-ups and many other core parts of the user experience.
 - Systems that handled customer feedback, product registrations, inventory alerts, etc.
 - Advanced product merchandising and search optimization solutions.

Built a gift card payment platform into a client's existing POS system.

- Created a PostgreSQL database using the client's provided gift card information. Gift card information was hashed and stored.
- Built a Django backend that was able to securely perform gift card operations and pass required information to the existing POS system (Microsoft NAV) using its REST API.
- A frontend was created to allow cashiers to scan gift cards (Angular, HTML).
- Application was containerized using Docker, and deployed to the clients' intranet.

Full Stack Developer | SMART CONSULTING

February 2023 - June 2023 (Contract)

Development, and support of a secure web based messaging app for internal use within a company.

- Analyzed the business requirements for the app.
- Mock ups of the apps frontend using Figma and Photoshop.
- Built a MySQL database for the application.
- Backend written to handle messaging operations, as well as connections that would allow us to import data such as user profiles. This was mostly done using NodeJS and PHP with a heavy use of the Laravel framework.
- Front end templates built using HTML, CSS, JS, VueJS.
- Real time secure updates were implemented using Laravel's Reverb and Echo.
- Containerized the application with Docker and tested it for Kubernetes deployment. The app was built to be integrated into other ongoing projects.

Full Stack Developer | T-EVOLUUM CONSULTING

August 2021 - February 2022 (Contract)

Aided in the development, and support of a career management app for teachers at the Conseil Scolaire Catholique Mon-Avenir.

- Built the app's MySQL database using MySQL and pandas.
- Created UI elements using Photoshop.
- Crafted parts of the UI such as the profile page using HTML, CSS, JS, Django.
- This project required strict adherence to specific accessibility requirements on top of the standard WCAG.

Developed an update for a web application to aid with the scheduling of educational inspectors within the council.

- Developed systems to notify council staff of various events without them having to open the app (SMS, E-mail) using PHP.
- Made various UI tweaks (HTML, CSS, JS, Angular).