

Vi Phung

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Skills

Languages: English: Fluent | French: Proficient

Programming & Web development: Java | Python | TypeScript | HTML/CSS | SQL | Bash Scripting | Git

Frameworks & Technologies: Laravel | React | Node.js | Vue.js | Express.js | MySQL | RestAPI

Tools & Methodologies: Figma | Jira | Docker | Postman | Agile/Scrum | Object-Oriented Programming (OOP)

Experiences

Maison MONA | *Back-end Developer, Co-op*

Jan 2025 – Apr 2025

- Implemented CRUD functionality for key REST API endpoints (`/artists`, `/artworks`) using *Laravel* and its Eloquent ORM, enabling complete data management for the art discovery mobile application.
- Generated and refined comprehensive OpenAPI documentation for 50+ endpoints using the *Scramble* library, significantly improving API clarity and accelerating the integration process for the mobile development team.
- Practiced advanced *Git* version control to maintain a clean and linear commit history, which streamlined the code review process and enhanced project maintainability.

WARP | *Back-end Developer, Intern*

May 2024 – Aug 2024

- Built a RESTful API microservice using *Node.js*, *Express.js*, and *TypeScript* to perform geospatial queries, directly supporting the company's AI-powered logistics and route-planning platform.
- Engineered two key endpoints: one to reverse-geocode GPS coordinates into precise postal codes, and another to calculate and return neighboring postal codes within a specified flight distance.
- Conducted API testing and validation using *Postman* to ensure high availability and data accuracy.

Lucid Axon | *Data Analyst & Research Assistant*

Sep 2023 - Apr 2024

- Developed Python web scraping scripts using *BeautifulSoup* and *Requests* to automate the collection of sustainability reports and ESG data from 500+ S&P 500 company websites, providing the core Excel datasets.
- Performed data cleansing, transformation, and validation on large datasets using *Python*, ensuring data integrity and proper formatting for insertion into the document classification engine.
- Collaborated with a post-doctoral research team to define data requirements and scraping targets, directly contributing to a project aimed at enhancing responsible investment strategies through AI.

Projects

Terminal-based portfolio website | *Typescript, React, HTML*

A unique, terminal-inspired personal portfolio featuring a command-line interface to navigate sections. Built with React, TypeScript, and Styled-Components for a fully responsive and interactive user experience.

Full stack AI Chatbot with OpenAI API | *Typescript, React, REST API, Node.js, Express.js*

Developed a full-stack, single-page AI chatbot leveraging the OpenAI API. Features a React front-end and a Node.js/Express.js back-end to handle API requests securely and manage conversation state.

NLP Document Search Engine with Bigram Prediction | *Java, NLP, TFIDF, OOP*

Built a natural language processing system implementing custom hash map data structures for word indexing and document retrieval, featuring bigram-based auto-completion and TFIDF-scored document ranking for intelligent search functionality.

Education

Université de Montréal

Montréal, Québec, Canada

Bachelor of Science, Bachelor's degree in Informatics

Jan 2021 – Aug 2025

- **Honors:** International Student Tuition Fee Exemption Scholarship, A-level.
- **Relevant Courseworks:** Software Engineering, Object-oriented design, Algorithms, Data structures, Computer Networks, Operating systems, Machine Learning