Stéphane Verville-Vohl

: Montréal, Québec, Canada
: (514) 268-4807
: stephane.verville.vohl@gmail.com
: github.com/merst
: linkedin.com/in/stephane-verville-vohl
: stephane-verville-vohl.com

Experience

Skill Development
September 2022 - Present

Self-study and application development in Python, Java, Rust and Javascript in order to practice:

- Full-Stack development of web applications with modern frameworks.
- Data engineering principles at scale and data pipeline development.
- DevOps best practices (CI/CD, Infrastructure as code, Container orchestration, Test automation, Cloud Deployment).

Family Care
March 2020 - September 2022

Family matters led to a career break at the start of the COVID19 outbreak. During that period, technical efforts were spent on solidifying my comprehension of the software development life cycle and on maintaining my programming skills.

Data Analyst
March 2019 - March 2020
IBM Client Innovation Center
Montréal, Canada

- Near-shore consultant for clients in Ottawa and Calgary, spending 25% of work time at clients' offices.
- Managed the quality control of data for an IBM Ottawa client, increasing the quality control workflow execution speed by 700% while maintaining high accuracy and efficiency.
- Leveraged IBM Cloud services to minimize resources spent by IBM Calgary client through data mining.

Technologies used: IBM Cloud, SQL, Python, MS Access, SAS, Windows, Red Hat Enterprise Linux, IBM Cognos.

Machine Learning Engineer Internship
April 2018 - September 2018
Bombardier
Montréal, Canada

- Agile feature developer for a machine learning model generator in the AI division of the thermodynamics team.
- Implemented the GPU computation support with nVidia CUDA for the model generator, which led to a 200% speed improvement for model training on PC.
- Streamlined the data cleaning process through the creation of a Python library tailored to the ML model generator.

Technologies used: Fortran, Python, nVidia CUDA, Git, Jupyter Notebooks, sklearn, matplotlib.

Project Examples (2022 - Present)

eCommerce in Java

A REST API for an online shop, with a heavy emphasis on the CI/CD pipeline development of the project, on the orchestration of containerized services and deployment on differing environments (locally, remote bare-metal servers, AWS).

Technologies used: Java, Spring Boot, Maven, PostgreSQL, Github Actions, Docker Compose, Selenium.

Mentor

A dashboard ingesting high volumes of data from asynchronous sources, designed to experiment with data visualization tools, ETL operations and Data engineering concepts.

Technologies used: Python, Django, PostgreSQL, pandas, polars, Tableau, Jupyter Notebook, Airflow.

Education

Bachelor of Computer Science
January 2016 - December 2018
Université de Montréal
Montréal, Canada

Curriculum focused on Artificial Intelligence - GPA upon graduation: 3.834
Notable academic projects include, but not limited to:

- **Haskell Interpreter:** Haskell interpreter to parse Haskell code in Lisp syntax, coded in Haskell.
- **MovieBucket:** An android mobile application coded in Java that facilitates movie night scheduling between friends.
- **Kaggle Competition:** Training of a classification model discerning 32 different objects in salted images. Second out of 40.