

Alexandre BELLEMIN-MAGNINOT . Jarvis Consulting

As a recent graduate with a Master's degree in Information Technology from the École de Technologie Supérieure de Montréal (ÉTS, Canada), with a double degree from the Institut Nationale des Sciences Appliquées de Lyon (INSA Lyon, France), I am interested in data, project management, and exploring new skills, with a particular focus on the aerospace and aeronautics sector. My goal is to build, learn, collaborate, understand, and above all, contribute to meaningful projects.

Skills

Proficient: Java, Linux/Bash, RDBMS/SQL, Agile/Scrum, Git, Power BI

Competent: Python, Microsoft Azure, PHP / Laravel, C/C++, VBA

Familiar: PySpark, MongoDB, Tableau, Databricks, Javascript, R, Unity, HTML/CSS

Jarvis Projects

Project source code: https://github.com/jarviscanada/jarvis_data_eng_AlexandreBellemin-Magninot

Linux Cluster Monitor. [GitHub]: Implemented a lightweight Linux monitoring agent that gathers hardware specifications and real-time usage metrics of systems in a distributed environment, so you can keep an eye on your servers without having to htop every five minutes across your entire system. It uses Bash scripts to collect host information and real-time usage metrics, Git to facilitate teamwork and feature development, and Docker to run a PostgreSQL instance for a relational database. The collected data is automatically added to them using cron jobs, tracking CPU, memory, and disk usage for capacity planning, troubleshooting, or simply spying in a distributed system. Long story short, the project shows how to build a simple, efficient DevOps pipeline with just a few scripts and some container magic.

RDBMS and SQL. [GitHub]: Practiced SQL by writing almost 30 query exercises. They cover major SQL concepts, including DDL, joins, aggregations, window functions, and date and string manipulations. All the queries have been designed to be executed in a PostgreSQL database, created by DDL queries, and deployed in a Docker container.

Highlighted Projects

AGILE project (academic project at INSA Lyon).: Implemented a map for the delivery service to optimize routes using Dijkstra's algorithm. Coding in Java, using an AGILE method and Git for collaboration.

Compiler in C (academic project at INSA Lyon).: Implemented a compiler for the C language in order to understand how it works, in C++ and assembly language. GitHub is used for collaboration.

Connected doorbell (academic project at ÉTS).: Design and development of a web application in Flask, deployed on Azure Web App to provide a graphical interface connected to a doorbell. The application can notify the user and take a photo to store in an Azure blob when someone rings the doorbell.

Professional Experiences

Software Developer., Jarvis (2025-present): Worked on several projects to develop skills for a data engineering role.

Project Coordinator., Bombardier (09/2024 - 05/2025): Developed automated tools using the Microsoft suite (Excel, VBA, Power Automate, Planner, SharePoint) to improve data reliability and optimize internal processes, some of which reduced execution time from one week to just 5 minutes. Contributed to knowledge management across several thousand employees.

Data Consultant., Thélio (05/2023 - 08/2023): Developed an ERP module in Laravel(PHP) for offer catalog management, extracted ERP data into a warehouse via APIs, and automated ELT pipelines with SQL & Azure Data Factory in medallion architecture. Built a Power BI dashboard to track the environmental footprint of the company.

Web developer., Ancey Informatique. (07/2022 - 08/2022): Designed and developed automated tests in PHPUnit for a Laravel-based resource management application used by multiple client companies.

Education

École de Technologie Supérieure (ÉTS Montréal) (2023-2025), Master of Information Technology (IT)., Information Technology. - Courses taken: Business Intelligence (BI), Cloud computing, Virtual Reality (VR), Knowledge and innovation management, Project portfolio management, Feasibility analysis, AGILE, Artificial intelligence management. - GPA: 3.7/4.0

Institut National des Sciences Appliquées (INSA Lyon, FRANCE) (2019-2025), Master's in Engineering., Computer Science. - Courses taken: Software development and design, DBMS, OLAP data modeling, Networks, Machine Learning, AGILE, Data mining, Statistics, Probability. - Animation manager at Student Association of the Computer Science Department. - Consultant for the school's junior company ETIC INSA Technologies: understanding the customer's needs and implementing the solution. - GPA: 3.7/4.0

Miscellaneous

- Cambridge Business Linguaskill (180/180)
- Drummer in several bands.
- Mountain sports
- Amateur cook