Kanty Gakima . Jarvis Consulting

Computer Science graduate from Université de Montréal with hands-on experience in software development, data processing, and building data-driven tools. Currently working as a Data Engineer at Jarvis, where I design and implement data workflows, automation scripts, and backend components using Python, SQL, Java, Bash, Docker, and Linux-based tooling. I work within an Agile/Scrum environment, collaborating with the team to deliver reliable, well-structured solutions. I have developed a strong foundation in data modelling, pipeline development, and efficient problem-solving. Eager to apply my skills in data engineering, analytics, or related fields while continuing to grow my expertise.

Skills

Proficient: Java, Python, Pandas/Numpy, SQL (PostgreSQL, MySQL), Linux/Bash, Git, Agile/Scrum

Competent: Docker, REACT, JUnit, JavaScript, REST API, Apache Spark, Data modelling and ETL concepts, Cloud fundamentals (GCP/AWS concepts)

Familiar: Power BI, Matplotlib, MongoDB, PHP, C++

Jarvis Projects

Project source code: https://github.com/jarviscanada/jarvis_data_eng_KantyGakima

Linux Cluster Monitoring Agent [GitHub]: Implemented a monitoring system using Bash/Shell scripts and Linux utilities to collect hardware specifications and real-time usage metrics from multiple Linux hosts. Deployed a Docker-containerized PostgreSQL database to store collected data and automated continuous data ingestion using crontab. The system provides a centralized and reliable data pipeline for performance monitoring, analytics, and maintenance.

Python Data Analytics - London Gift Shop(LGS) Proof of Concept [GitHub]: Designed and delivered a proof-of-concept analytics solution to help an e-commerce retailer understand customer purchasing behaviour and improve revenue strategy. Loaded a historical SQL export into a Dockerized PostgreSQL database, cleaned and analyzed the data using Python, Pandas, Numpy, and Matplotlib in Jupyter Notebook. Genrated insights on seasonal trends, customer retention, cancellation patterns, Geographic concentration and RFM-based segmentation, providing actionable recommendations for targeted marketing strategies

Java Grep App [GitHub]: Developed a Java command-line application that recursively searches files ina directory for lines matching a user defined regular expression and writes all matching to an output file, similar to `egrep -r`. Implemented file traversal, regex pattern matching and efficient file I/O using Java streams. Packaged the application as both a runnable JAR and a docker image.

Highlighted Projects

International Data analysis: Conducted a data analysis project focused on collecting, cleaning and transforming socio-economic and demographic indicators extracted from multiple Wikipedia data tables, using Python, Pandas, NumPy, Matplotlib and Jupyter Notebook. Applied standard data preprocessing and exploratory analysis methods to identify and visualize patterns across countries.

Recipe Management Web App [GitHub]: Developed a full-stack web application that helps users store all their favourite recipes in one place and keep them easily accessible. The app allows any user to add, edit, and delete their own recipes, with updates appearing in real time for everyone. Built using PHP, MySQL, JavaScript, HTML, CSS, and supported by a simple REST API with asynchronous fetch requests to handle all CRUD operations and keep the interface in sync.rt CRUD operations and instant synchronization.

Travel reservation system: Developed a Java-based reservation system centered on structured data modelling and system logic. Designed core components using object-oriented principles and UML diagrams in Visual Paradigm, implemented reservation workflows, and validated functionality with JUnit tests. The project focused on clean data structures, reliable application logic, and maintainable code aligned with software engineering best practices.

Professional Experiences

Data Engineer, Jarvis (2025-present): Designed and developed data workflows and backend components using SQL, Python, Java, Bash, and Linux-based tooling. Implemented automation scripts and containerized environments with Docker. Collaborated within an Agile team using Git to deliver maintainable and well-structured solutions.

Bilingual credit card specialist, TD Canada Trust (2024-2025): Handled and documented 70+ daily interactions related to credit card management and account openings while maintaining strict compliance with security and confidentiality standards. Analyzed client profiles to recommend tailored financial products that supported customer satisfaction and an improved user experience. Collaborated with internal teams to resolve incidents and anomalies efficiently, ensuring all cases were clearly, accurately, and traceably documented.

Technical Assistant (Part-time), Université de Montréal - Philanthropy and Alumni (2022-Present): Managed, validated, and updated alumni and donor data in compliance with governance and confidentiality standards. Supported outreach campaigns by conducting high-volume outbound calls and analyzing performance results to refine scripts and improve interaction quality. Contributed to onboarding and training by enhancing internal documentation, updating workflows, and providing mentoring to new assistants.

Education

Université de Montréal (2022-2024), **Bachelor of Science**, **Computer Science** (Relevant coursework : Algorithms & Data Structures, Databases, Data Science, Web Development, Object-Oriented Programming, Software Design, Machine Learning, Probability & Statistics)

Miscellaneous

- Scratch programming instructor (2019-2020) for children aged 6 to 12, teaching basic programming concepts through animations and games.
- Girl Scout: Treasurer (2017-2020) and early teens instructor (2018-2020), organizing weekly educational activities and quarterly community volunteering initiatives.
- Hiking enthusiast