

FLAVIA Y. OUYANG

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EDUCATION

McGill University, Montreal, QC
Bachelor of Science, Computer Science
Minors: Philosophy, Integrated Management and Entrepreneurship

June 2022

EXPERIENCE

SociVolta Inc
Software Engineer

Montreal, QC
June 2022 - Present

Responsible for data collection, transformation, and consolidation into MySQL database using Python, Apache Airflow, and AWS

- Maintain and extend data extraction, transformation, and consolidation libraries
- Automate over 600 ETL (Extract, Transform, Load) jobs using Apache Airflow to ensure daily execution in production
- Resolve data quality related issues for the research team
- Deploy Apache Airflow DAGs into production via CI/CD using Jenkins
- Propose and implement features to improve efficiency, productivity, and scalability of current framework
- Lead data transformation library refactor to establish a unified, structured, and systematic approach to create transformers
- Establish new format for data transformers and store them as JSON documents in MongoDB
- Create over 100 transformation documents for data cleansing
- Design and build data processing framework to support various workflows, improving extensibility and maintainability of the system while increasing data-processing capabilities
- Design and develop data lineage system to allow comprehensive recordings of data origin and data flow
- Implement backend to extract data from AWS S3, transform data, and load clean data to MySQL database
- Implement backend to extract data from more than 20 different energy market portals, clean data, and consolidate into MySQL database

SPECIALIZED SKILLS

Programming Languages: Python, C++, Java, TypeScript, JavaScript, SQL, PHP, Bash, HTML, CSS, SCSS, XML
Technologies and Tools: Apache Airflow, Git, GitHub, Bitbucket, AWS, React, Next.js, Flask, Django, Unit, MongoDB, MySQL, PostgreSQL, IBM-DB2, Jira, Confluence, Figma, Docker, Kubernetes, Jenkins
Industry Knowledge: Object-oriented Programming, Version Control, Agile Development, CI/CD, UML