

# Sidney La Fontaine

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## WORK EXPERIENCE

**CommonSpirit Health**, Chicago, IL

*Senior Technical Data Architect*

May 2025 - Present

- Key member of the team leading the technical supply chain implementation of Workday ERP. Designing a new normalized schema to store all CommonSpirit Health supply chain data. Integrating data from 10 separate ERPs into the new schema.
- Working closely with subject matter experts to lead requirement gathering, resolve standards and exceptions, and present my team's technical solutions
- Implement development standards, lead team code reviews, and review pull requests (PRs) in Azure DevOps
- Developed and maintained SQL cloud data warehouse utilizing big data tools including DBT, Prefect, GCP, AWS, and Azure DevOps
- Designed, coded, optimized, and maintained Python ETL/data pipelines that connect disparate healthcare data sources

*Data Scientist*

June 2023 - May 2025

- Developed and maintained SQL cloud data warehouse utilizing big data tools including DBT, Prefect, GCP, AWS, and Azure DevOps
- Migrated data warehouse from AWS to GCP, updating legacy code for data models, tables, reports, ETL/data pipelines, etc.
- Designed, coded, optimized, and maintained Python ETL/data pipelines that connect disparate healthcare data sources
- Pioneered projects that automatically emailed recipients based on complex analytics, utilizing a relay server. Estimated time saved: up to 100 hours per week for multiple projects
- Analyzed complex supply chain datasets to identify patterns, trends, and anomalies to draw meaningful conclusions
- Participated in CI/CD development utilizing Azure DevOps and AGILE project management

**Network and Distributed Systems Security Lab; funded by Toyota InfoTech**, Boston, MA

January 2022 - July 2022

*Autonomous Driving and Algorithms Research Co-op*

- First-authored [Alternative Route-Based Attacks in Metropolitan Traffic Systems](#) paper: selected to publish and present at the 52nd IEEE/IFIP International Conference on Dependable Systems and Networks (DSN)
- Researched Connected and Autonomous Vehicle (CAV) security issues to help make the future of autonomous driving safer
- Designed and implemented four heuristic graph algorithms in Python targeting the shortest paths of vehicles to simulate traffic disruption attacks against CAVs in real city transportation graphs

**Genentech**, San Francisco, CA

January 2021 - July 2021

*Natural Language Processing (NLP) Analyst Co-op*

- Utilized NLP techniques to extract structured data from text to connect biological research topics and authors to drive future biology research
- Applied BERT Machine Learning Language Model and rule-based NLP algorithms in Python to over 36 million PubMed abstracts to execute Name Entity Recognition and Relation Extraction tasks
- Designed and built graph database on AWS EC2 instance using Neo4j, containing tens of millions of biological entities and relationships between them extracted from PubMed abstracts and public data

**Northeastern University**, Boston, MA and London, UK

January 2019 - December 2022

*Part-Time Teacher's Assistant on Boston Campus and Full-Time Teacher's Assistant on London Campus*

- Lectured up to four weekly lab sections of 30 to 101 students on principles of programming, such as representing data in code and recursion
- Collaborated with professors to design course materials
- Conducted office hours and tutored students one-on-one

**X-Cel Education**, Boston, MA

September 2018 - January 2023

*Volunteer GED Math Tutor*

- Volunteered as a Math Tutor, teaching adults pursuing a high school equivalency degree

## EDUCATION

**Northeastern University**, Boston, MA

May 2023

Bachelor of Science in Data Science; Minors in Mathematics and Philosophy

GPA: 3.87

## SKILLS

**Technical Skills:** Python, SQL, Azure, Cloud Data Warehousing tools (such as Redshift and GCP, equivalent to Snowflake), ETL/Data Pipeline tools (such as Prefect and Airflow, equivalent to Databricks), Java, DBT, TensorFlow, Pytorch, JavaScript, R, C++, AWS, Neo4j, Scala, MongoDB, Redis, HTML, CSS, Docker, Tableau

## HONORS/AWARDS

- Northeastern University Honors Program
- Dean's Scholarship
- Dean's List all 8 semesters
- First-authored [Alternative Route-Based Attacks in Metropolitan Traffic Systems](#) paper: selected to publish and present at the 52nd IEEE/IFIP International Conference on Dependable Systems and Networks (DSN)