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 of CommonSpirit Health's supply chain data. Integrating terabytes of data from 10 separate ERPs and hundreds of hospitals and care facilities into the new schema
- Implement development standards, lead team code reviews, and review pull requests (PRs) in Azure DevOps
- Collaborate with supply chain experts to lead requirement gathering, resolve standards and exceptions, and present my team's technical solutions for the new Workday ERP
- Develop and maintain SQL cloud data warehouse utilizing big data tools, including DBT, Prefect, GCP, AWS, and Azure DevOps
- Design, code, optimize, and maintain 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 Redshift 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 across various 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 entities, research topics, and authors to drive future biology research
- Applied Bidirectional Encoder Representations from Transformers (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
- Collaborated with professors to design and grade course materials, including exams, problem sets, labs, and lecture materials
- Conducted office hours and tutored students one-on-one

X-Cel Education, Boston, MA September 2018 - May 2023
Volunteer GED Math Tutor

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

EDUCATION

Northeastern University; Boston, MA
Bachelor of Science in Data Science; Minors in Mathematics and Philosophy
GPA: 3.87 (Graduated *summa cum laude*)

SKILLS

Technical Skills: Python, SQL, Azure DevOps, Amazon Redshift, Google Cloud Platform (GCP), Prefect, Airflow, Java, DBT, TensorFlow, Pytorch, JavaScript, R, C++, AWS, Neo4j, Scala, MongoDB, Redis, HTML, CSS, Docker, Tableau

HONORS/AWARDS

- 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)
- Dean's Scholarship