Daniel Shoichet

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WORK EXPERIENCE

Tesla *Software Engineer Intern*

Sept 2022 — Dec 2022

San Francisco Bay Area, California

- Developed a real time change data capture (CDC) pipeline to replace an outdated batch data export system which often took upwards of 1 hour using Apache Kafka, Pyspark and Delta Lake on Databricks.
- Saved engineers 4 hours of weekly manual testing by building an automated deployment test pipeline for an ELT system.
- Decreased development time of data analysts by 40% by building a tool to mock test and integrate ELT schema changes.
- Designed the architecture for an automated cost saving contract analysis tool that proposes cost optimizations to supply managers based on given business rules.

Wealthsimple May 2022 — Aug 2022

Software Engineer Intern

Toronto, Canada

- Architected and implemented a code-as-compliance repository for access management of personally identifiable information (PII) in the data warehouse for Wealthsimple's SOC 2 compliance certification using **Satori** and **Terraform**.
- Built a data-access request system for access of PII in the data warehouse. The system integrates with the Wealthsimple Jira Service Board and consults data domain experts via Slack for access approval using Python and a Flask backend.
- Increased development rate and error visibility in the managed machine learning system at Wealthsimple by building log and queue reporting for **Celery** training workers.
- Relavent blog posts: [1] [2]

Bookmark | AI Powered Website Builder

May 2021 — Aug 2021

Machine Learning Engineer Intern

Toronto, Canada

- Saved data-scientists 20 hours/month of manually training models by Automating the training and integration/unit testing of 10 sequentially trained machine learning models in **Python** using **Apache Airflow**.
- Built a horizontally scalable data pipeline using AWS Batch, SQS, S3, ECR, Apache Airflow, and Apache Spark to reduce
 data export time by 30% and improve data reliability and error tolerance.
- Improved model engineering to reduce bugs, allow for more reusable code, and increase the rate of model development.

Magellan Aerospace Limited

May 2020 - Aug 2020

Summer Web Developer

Winnipeg, Canada

• Migrated a collection of web apps written in PHP to ASP.NET (C#) to improve performance and security and updated the frontend of those web apps using HTML, CSS, and Javascript.

EDUCATION

Honors Bachelor of Science in Computer Science, University of Toronto

Sept 2019 — Apr 2023

Toronto, Canada

Computer Science Specialist, 3.75 cGPA

• Awards: Dean's List of Academic Excellence (2020 - 2022)

SELECTED PROJECTS

Crypto Trader [code] Jan 2022

- Developed a personal cryptocurrency trading program using the binance-connector python package.
- · Researched a number of different potential trading algorithms and tested them using internal evaluation tools.

LocAlley Community Board

Sept 2021 — Dec 2021

Backend Engineer

- Developed a small-business centred community forum for a Toronto startup with peers as part of Software Engineering course.
- MVP built in Python using Fast.API, PostgreSQL, and Firebase, and deployed publicly to Heroku in a Docker container.

SKILLS & INTERESTS

Programming Languages Python, Java,

Python, Java, Terraform, SQL, Golang, C#, C, R, Racket, Haskell

Cloud Computing AWS {S3, EC2, Lambda, Batch, ECR, SQS, RDS, CodeBuild, CloudWatch}, Heroku

Tools/Technologies Git, Apache Airflow, Docker, Celery, Datadog, MySQL, PostgreSQL, Linux/Unix, React, ŁTŁX

Chess, Swimming, Reading, Podcasts, Weightlifting, Gardening

Interests ACTIVITIES

Computer Science Student Union - First Year Mentor UofT Artificial Intelligence Group - General Executive Sept 2020 — Current

Sept 2020 — Current