Daniel Shoichet

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EDUCATION

Honors Bachelor of Science in Computer Science, *University of Toronto* **Sept 2019 — Apr 2023**
Computer Science Specialist; 3.75 cGPA *Toronto, Canada*
- **Awards:** Dean's List of Academic Excellence (2020 - 2022)

WORK EXPERIENCE

Tesla **Sept 2022 — Dec 2022**
Software Engineer Intern *Fremont, Califrnia*
- On the engineering automation systems team, working on advanced data applications.

Wealthsimple **May 2022 — Aug 2022**
Software Engineer Intern *Toronto, Canada*
- Architected and implemented a code-as-compliance repository for access management to personally identifiable information (PII) in the data warehouse for Wealthsimple's SOC 2 compliance certification using **Satori**, **Terraform**, and **Github Actions**.
- 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.
- Set up **Datadog** log and queue reporting for **Celery** workers in the managed machine learning system at Wealthsimple.

Bookmark | AI Powered Website Builder **May 2021 — Aug 2021**
Machine Learning Engineer Intern *Toronto, Canada*
- Automated the training and integration/unit testing of 10 sequentially trained machine learning models in **Python** using **Apache Airflow** to save data-scientists 20 hours/month of manually training models.
- Rebuilt 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 **PHP** websites to **ASP.NET** (**C#**) websites to improve performance and security with a strong object oriented design.
- Developed an internal chemical registry system that stores and tracks QA information of over 1000 chemicals over the past 20 years to replace an outdated PHP implementation with many critical bugs.
- Updated websites expected to reach over 500 employees at the company.

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

SKILLS & INTERESTS

Programming Languages	Python, Java, Terraform, SQL, C#, C, R, Racket, Haskell, Javascript, HTML/CSS
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, LaTeX
Interests	Chess, Swimming, Reading, Podcasts, Weightlifting, Gardening

ACTIVITIES

Hack the North – Canada's largest hackathon	Jan 2021
LearnAI participant	Oct 2020 — Apr 2021
Computer Science Student Union - First Year Mentor	Sept 2020 — Current
UofT Artificial Intelligence Group - General Executive	Sept 2020 — Current
MedHacks – Healthcare focused hackathon	Sept 2020