# Evan Pai

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#### Skills

Languages: Python, JavaScript, C, C++, R

Technologies: SQL, React, AWS, Flask, NumPy, pandas, PyTorch, OpenCV, Spark

## Experience

**Thomson Reuters** - Software Engineering - Data Science Intern

Jan 2021 - Aug 2021

- Built a HTML **content extraction system** for use in a **fake news detection** pipeline by cross-referencing results from multiple Python libraries
- Extended the backend of an automated curated newsletter, informing subscribers of relevant industry trends while logging user engagement using AWS DynamoDB, Flask and SparkPost
- Evaluated and documented machine learning methods for parsing and extracting HTML content
- Wrote Python scripts to modify metadata and validate strings to assist in a facial recognition and image captioning pipeline

Statistics Canada - Data Science Intern

Sept 2019 - Dec 2019

- Developed Python tools for a standardization of English and French metadata variables using Natural
  Language Toolkit to reform variables from a many-to-many relationship to a one-to-one relationship
- Created a PyQT5 GUI used to query survey database keywords based on associated semantics
- Managed a metadata database with 50,000+ entries and added components to automate procedures

#### **Sigma Corporation** - Data Analyst

Feb 2019 - Apr 2019

• **Predicted manufacturing times** of operations for over **400**+ parts using regression, resulting in an optimized production schedule and **projections of labour costs** for all operations

## **Projects**

ytSheetMusic % Mar 2023

AWS EC2+S3, React, and Flask Web App to convert sheet music from YouTube URL to PDF

- Identifies and isolates regions of interest using OpenCV Contour Detection, merging results to PDF
- Prevents sheet music duplicates by calculating structural similarity index between images
- Reduced result processing time from ~1 minute to instantaneous output by caching images in AWS S3

**DataBake** <sup>№</sup> Aug 2020

PyQT5 GUI and SQLite Database for baking needs

- Tracks ingredient inventory and costs based on sales and expenses
- Records recipes and computes costs of ingredients to produce batches
- Creates graphical visualizations to summarize sales, profit margins, and bestselling products

### Education

#### **University of Waterloo**

2018 - 2022

Bachelor of Mathematics in Computational Math Minor in Computing Minor in Combinatorics and Optimization