

# Evan Pai

(647) 622-4699 | [evan4217@gmail.com](mailto:evan4217@gmail.com) | [evanpai.com](http://evanpai.com) | [linkedin.com/in/evan-pai](https://linkedin.com/in/evan-pai) | [github.com/Wubaboo](https://github.com/Wubaboo)

Recent graduate Software Engineer with a passion for creating elegant and impactful projects. Seeking a software engineering position with abundant opportunities for learning and growth.

## Skills

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

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

## Experience

### Software Engineer/Data Science Intern - Thomson Reuters

Jan 2021 - Aug 2022

- 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**

### Data Science Intern - Statistics Canada

Sep 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

### Data Analyst - Sigma Corporation

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

### Memory Games 🔗

Sep 2023

*React Native memory game collection*

- Developed and published a collection of minimalist memory games available on the **Google Play Store**
- Applied **graph theory concepts** to dynamically generate random paths in a maze

### 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 🔗

Aug 2020

*PyQT5 GUI and SQLite Database for baking needs*

- Creates graphical visualizations to summarize sales, profit margins, and bestselling products

## Education

### University of Waterloo

Graduated 2022

### Bachelor of Mathematics – Computational Math

*Minor in Computing*

*Minor in Combinatorics and Optimization*