Evan Pai

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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