Evan Pai

(647) 622-4699 | ei2pai@uwaterloo.ca | linkedin.com/in/evan-pai | github.com/Wubaboo

Experience

Thomson Reuters - 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 reforming the 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
- Used Python's **Natural Language Toolkit** to aid future keyword selection decision-making to encourage and maintain the one-to-one relationship between keywords
- 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 🔗   Dec 2021
Python tool to convert sheet music from Youtube URL to PDF
- Identifies and isolates region of interest using **OpenCV Contour Detection**
- Calculates image **structural similarity index** to prevent duplicates
- Crops, manipulates, and merges selected images to PDF

DataBake 🔗   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

Skills

Languages: Python, JavaScript, C, C++, R
Technologies: SQL, NumPy, pandas, PyTorch, OpenCV, Spark, AWS, React