Thomas J. Pickup

tpickup@umich.edu • (914) 356-7228 • New York City, NY

Education

University of Michigan, Ann Arbor, MI

April 2022

BSE in Computer Science, Minor in Mathematics

- GPA: 3.15/4.0
- Related coursework: Computational Theory, Data Structures and Algorithms, Computing for Engineers and Applied Scientists (in Python), Web Development, Machine Learning, Effective Computing, Operating Systems, Deeplearning for computer vision.

Technical Skills

Technical Skills: Python, Java, C++, SQL, JavaScript, CSS, HTML, Django, Flask, git, Tableau, SQL, MongoDB, OOP

Packages: Scikit-learn, PyTorch, NumPy, SciPy, Matplotlib, Pandas

Experience

ICF Data Analyst July 2022 - July 2023

- Client: United States Children's Bureau
 - Used Talend for loading of monthly data files into a PostgreSQL Database feeding a dashboard monitoring the effectiveness of outreach programs.
 - Created a new Talend ETL Jobs written in Java for a new dataset to aggregate event survey data.
- Client: Military One Source (available at https://demographics.militaryonesource.mil/.)
 - Migrated ETL Jobs for enhanced handling of US military demographics data from Talend to Alteryx and created data validation processes that eliminated errors prior to data publication.
 - Consolidated historical datasets into a centralized PostgreSQL database, creating a direct data connection to Tableau, reducing latency by several months.
 - Developed proficiency in Tableau while implementing new client requirements for improved data visualization and long term trend data.
- ICF Internal: GeoreferencingTeam
 - Trained and implemented a computer vision model in Python (achieving an 80% accuracy) to detect rooftop solar panels for tax rebate verification. Summer 2021

Rosalyn.ai

Jr Al Engineer- Intern

- Wrote a program to reduce QA time by extracting a 10 second clip corresponding to each instance the model classified as cheating.
- Engineered a heuristic method using pixel change data from frame to frame to trigger model activation, reducing cpu/gpu
- Established a DevOps pipeline for Jira ticket interaction and command-line code deployment.

Episode 1

January 2021 - May 2021

Venture Capital firm- Data intern

Created an automated system that collects KPI information from companies in seed funds.

Wall Street Webcasting

Summer 2020

Production Engineer

Recruited and trained large team (~30 people) of video producers for webcasting virtual seminars.

Projects Experience

Extractive Summarization of Meeting Transcript Data

Winter 2021

- Developed and trained LDA models on the Wikipedia corpus to model 100 general topics.
- Applied LDA models to segmented meeting data, identifying topic sections in the transcript and utilizing a text summarization algorithm (TextTeaser) to generate meeting summaries.

GPT Fintech Chatbot

- Leveraged the OpenAl API (GPT3) for advanced natural language processing capabilities in analyzing and retrieving scraped business articles from publications such as Crunchbase, Bloomberg, and Business Insider. Established a MongoDB database for efficient storage and retrieval of the articles, ensuring seamless access and management.
- Employed structural completion feature to automatically populate a database with IPO and seed funding data, including investors.

Personal Interests

Chess/Board Games, Soccer, Cooking, Music, Hiking, Snowboarding, Volunteering, SEPI (professional frat)