

Jason Ouyang

jasonou@umich.edu • 248-480-3225 • <https://github.com/71296976165>

OBJECTIVE

Seeking entry-level software engineering role, with coursework in database management, AI, and UI/UX.

EDUCATION

University of Michigan

Ann Arbor, MI

Bachelor of Science in Computer Science, Bachelor of Science in Economics, Political Science Minor

May 2024

GPA: 3.57 / 4.00

Coursework: Computer Organization, Data Structures and Algorithms, Intro to Machine Learning, Database Management Systems, Introduction to Artificial Intelligence, Artificial Intelligence for Human Behavior, User Interface Design

PROJECT EXPERIENCE

Artificial Intelligence – Audio Emotion Classification with HuBERT

January 2024 – April 2024

- Designed architecture for a transformer-based machine learning model to classify audio tracks into three categories
- Tested and compared Hidden Markov Models, Convolutional Neural Networks, and a fine-tuned transformer-based HuBERT neural network in pytorch to classify music, achieving 88% test accuracy with HuBERT as our final model.

Frontend - Music Track Webpage

January 2024 – April 2024

- Built frontend of website with Bootstrap and Vue to display music track information for well-designed local webpage
- Incorporated iTunes API with Javascript and Vue calls to add real time track information for live search and filtering

Machine Learning – Movie Reviews with SVMs

September 2023 – October 2023

- Built a Support Vector Machine classifier with scikit learn on bag-of-words model to predict movie reviews
- Assessed and reported combinations and applications of hyperparameter tuning and advanced feature sets to select a model to test on a hidden test dataset, for a 100% score based on class position.

WORK EXPERIENCE

Diurnal Days Art

Ann Arbor, MI

Data Analyst

September 2022 - Present

- Built inventory management and sales management solution to assess stock counts and generate sales insights.
- Advised artist based on generated sales insights to niche down into a more specific genre and expand into new categories of products, which increased sales from under \$1500 a year to over \$25,000 annually in one year.

Marupo's Egg Tarts

Ann Arbor, MI

Baker, Salesperson

May 2023 - Present

- Presented story of egg tart and business to hundreds of people, including at Farmer's Markets and Google, resulting in increased brand awareness and 2 follow-up business opportunities.
- Managed the kitchen staff of four people to produce hundreds of premium pastries reliably and efficiently every week.
- Conducted long sales shifts at the Ann Arbor Farmer's Market and Google's Ann Arbor location, selling thousands of dollars of merchandise over the course of three months.

Studio Diag

Troy, MI

Founder

January 2022 - Present

- Founded a video game company to compile student org's art and writing into a single medium-length video game.
- Designed, built, tested, and released a full demo of a 16,000 word choose-your-own-adventure game, written in Python using the Ren'py framework over the course of a year.
- Managed schedules, updates, and dependencies to hit target timelines for ship dates on early alpha and demo builds.
- Analyzed user feedback and incorporated UI/UX improvements, resulting in a 20% improvement in user review scores.

SKILLS

- Programming Languages: C++/Python/SQL/JavaScript/Vue
- Frameworks: Bootstrap, VueJS
- Library: Scikit-learn, Pytorch, HMMLearn
- Soft skills: Leadership, mentorship, coaching, writing, reading, problem-solving.

ACTIVITIES

Executed eight month training regime for couch to marathon and ran marathon in 4:37

March 2021 – November 2021