Zexin (Jason) Xu

4563 Kenny Rd Apt D, Columbus, OH 43220 | (513) 635-4669
amoy.xu.44@gmail.com | xu.2460@osu.edu | in/jason-xu-9467b5171/ | github.com/Asonjay/

OBJECTIVE

Seeking for internship opportunities for Summer 2022 for Software developer & engineer, algorithm engineer of AI-related area or data analyst & engineer positions

EDUCATION

The Ohio State University (OSU), Columbus, OH | AUG 2021 – JUL 2023
   M.S. in Computer Science and Engineering | **GPA: 3.7**

The Ohio State University (OSU), Columbus, OH | JAN 2018 - DEC 2020
   B.S. in Computer Science and Engineering | **GPA: 3.87**
   Honor: Magma Cum Laude, Dean's List

QUALIFICATION & CORE COMPETENCIES

Relevant Courses

- NLP, Neural Network, Data Mining, Machine Learning
- Socket Programming, Parallel programming, DBMS
- Software Development, Interactive System Design, Data Structure, System Architecture

Industry Knowledge

- Pytorch, NumPy, pandas
- Agile Methodologies, Agile Project Management,
- AI (Bayes Network, Neural Network, Machine Learning, Supervised/Unsupervised Learning, Regression), NLP, Data Mining (Data Analysis)

Programming Language

Java, Python, C#, C, C++, JavaScript, SQL, MySQL, HTML/CSS

Tools

Visual Studio, Azure DevOps, Azure Bot Framework, MS Project, Google Diagflow, Git

Language

Fluency in English and native speaker of Chinese

PROJECTS

Lyric Timestamp Auto Generator NLP

- Given audio file and lyric text file, system will generate synchronized map or timestamped-lyric
- Implemented with forced alignment approach
- Built from scratch, including data scrapping and processing.
- Applied with Fourier transform to modify the audio file
- Drafted the project idea and structured the design framework
- Extend the idea from line-to-line synchronization to word-to-word
- Implemented with Python

Honda Virtual Assistant Sponsored by Honda
- Integrated in Microsoft Teams & Skype, with the function of daily tasks kiosk and self-service assistant.
- Serving as a chatbot in the channel, the system has the ability of natural language processing and return the result by implementing Azure Bot Framework.
- Used blob storage service for knowledge base implementation
- Drafted the basic structure and development process as the team lead
- Built based on Microsoft Azure service.
- Utilized **Node.js, Azure Bot framework, LUIS (Language Understanding Cognitive Service).**

Super Davis Interactive System, 2D Game Design
- A 2D Super Mario variation.
- Built based on the interactive system knowledge as well as object-oriented programming with C# and visual studio
- Led the system performance improvement by revising collision detection, gaming physics implementation and object manager as well as reducing the complexity of the system
- Designed with agile software development principle.
- **Used C#, Visual Studio**, Monogame.

Data Competition Data Mining
- Participating the data mining competition based on CITI training and PhysioNet.
- Including all the data preprocessing, feature matrix construction and selection, model building and revision as well as the evaluation of data prediction.
- Implemented with Python

WORK EXPERIENCE
The Ohio State University (OSU), Columbus, OH | JAN 2020 – MAY 2020
Grader / Part Time
> Guided students to understand basic algorithms and structure of computer science for Foundations I: Discrete Structures course.

The Ohio State University (OSU), Columbus, OH | AUG 2019 – DEC 2019
Grader / Part Time
> Helping students to develop a knowledge of the algorithm of basic AI techniques and their implementation for Survey of Artificial Intelligence I: Basic Techniques course.

ACTIVITIES
The Ohio State University (OSU), Columbus, OH | 2019
HackOHI/O
> With provided electricity meter data, generated a website with reports of electricity usage and distribution. Worked with Engie's sponsor project.

The Ohio State University (OSU), Columbus, OH | 2018
HackOHI/O
> Developed a personal webpage generator, which will take customer's personal information feed and generate a .html file.