Yixin Pan

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Education

COLLEGE | JOHNS HOPKINS UNIVERSITY | BALTIMORE, MARYLAND | AUG 2019 – MAY 2021
COLLEGE | CASE WESTERN RESERVE UNIVERSITY | CLEVELAND, OHIO | AUG 2017 – MAY 2019

- Major: B.S. Computer Science   Minor: Entrepreneurship and Management
- CS coursework: Operating System, Programming Language Concept, Object-Oriented Software Engineering, Database, Natural Language Processing, HCI & HBI, Machine Learning, Deep Learning, CS Innovation, etc.
- GPA: 4.0/4.0 (CWRU) 3.73/4.0(JHU)   • Dean's High Honors (4/4)
- Current Member at Ohio Alpha Chapter of Tau Beta Pi- Engineering Honor Society

Skills & Abilities

PROGRAMMING SKILL

- Java, Python, C/C++, MySQL, Assembly Language, HTML, CSS, JavaScript, MATLAB, Scheme, Haskell
- Full Stack Development with MERN/ Javalin
- Data Analysis & Visualization with Python

OTHER SKILL

- Excel for Financial Analysis & Data Analysis, Mathematica, Origin, LaTeX, Linux Command
- ML: NumPy, PyTorch, Scikit-Learn, TensorFlow
- Axure RP Pro/Figma for UI & UX Design

Professional Experience

CA HIRING APP DEVELOPER | JHU | FEB 2020 – PRESENT

- Developed a CA Hiring website with MERN stack for JHU CS Department in a team of 5 (with UML & UI design)
- Applied Agile methodology with each iteration followed by user contextual experience

SOFTWARE ENGINEERING INTERN | REVASED, LLC | MAY 2020 - AUG 2020

- Assisted company's official website migration from Squarespace to Shopify (Template Language Liquid)
- Detected functional and aesthetic disadvantage of Revased website, redesigned the User Interface for cart, checkout, and email formatting pages, and implemented the changes as new features onto website
- Applied customer order information with data analysis techniques to interpret customer groups and patterns

Programming Projects and Researches

RESEARCH ASSISTANT | JHU INTUITIVE COMPUTING LAB | JAN 2021 – PRESENT

- Extended the vanilla social force model to simulate the walking behaviour of pedestrian social groups

DELINEO COVID-19 MODELING PROJECT | JHU | MAY 2020 – PRESENT

- Aimed to develop a new model that more accurately understands and predicts the spread of diseases such as COVID-19 considering different types and sizes of communities and lag time of spreads across areas.
- (Summer) Developed the website with MERN (Front-end prototype with Adobe XD), created data visualization for simulation result, and participated in ML algorithm brainstorm and hmm method implementation
- (Fall) Implemented Markov/LSTM model, applied Geolocation data in different algorithms to discern movement patterns/anomalies within different communities, and reflected in the simulation process

BIOINFORMATICS RESEARCH ASSISTANT | CWRU | JAN 2019 – JULY 2019

- Aimed to find how the network between diseases and drugs is analogous to the recommendation system
- Helped collecting the image information from E-commerce website with Distinct API for the research database

Extracurricular Activities

TA FOR INTRO TO CS | MICROSOFT TEALS PROGRAM | SEPT 2020 – PRESENT

- Assisted high school teacher with a CS curriculum and inspired students to consider CS career development

PEER TUTOR & COURSE ASSISTANT | CWRU & JHU | SEPT 2018 – PRESENT

- Tutored CS-related course and CA in Business Analytics and Artificial Intelligence (8 - 12 hours per week)

VICE PRESIDENT OF CSSA | CWRU | CURRENT POSITION | OCT 2018 – SEPT 2019

- Organized Annual Recruitment, monthly activities planning, and constitution revision

CWRU ICPC TEAM | ACM INTERNATIONAL COLLEGIATE PROGRAMMING CONTEST | 2019