

JONAH HU

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EDUCATION

Purdue University - West Lafayette, IN
B.S. Computer Science - Machine Intelligence
B.S. Data Science

Graduated: Dec 2022
GPA: 3.58/4.00

PROFESSIONAL EXPERIENCE

Purdue Data Mine - Technical Project Lead (to Renzoe Box)

Aug 2022 - Dec 2022

- Led a team of six students in the development and implementation of a facial recognition project to detect obstructions
- Utilized data science expertise to emphasize importance of quality data for models through documentation and code
- Implemented a two-week sprint cycle for tasks and mentored team members on Agile methodologies as a scrum master
- Collaborated with managers to establish project requirements over four months, resulting in 30% faster project completion rates

Renzoe Box - AI/ML/NLP Intern

Jan 2022 - Aug 2022

- Developed an end-to-end machine learning pipeline for data collection, preprocessing, modeling, and deployment
- Programmed web scrapers with BeautifulSoup to extract information from several makeup websites, increasing product acquisition rates from a few items to a hundred items per day
- Wrote automated scripts on extracted data to perform various tasks, including classification, cleaning, and data augmentation through the use of natural language processing, reducing weeks of manual verification
- Trained a supervised learning classification model with existing algorithms to detect obstructions that obscure facial features in images, which averages ~85% accuracy
- Integrated code into company's first minimal viable product, enabling users to test functionality and provide feedback

Fun With Academics - Instructor

Jul 2021 - Nov 2022

- Programmed fun educational labs utilizing JavaScript to teach coding fundamentals for elementary school children
- Broke down labs into a series of five sub-lessons using a progressive curriculum approach, which helps increase complexity
- Mentored several students on curriculum, providing hands-on guidance and support through multiple hour-long sessions
- Wrote documentation to enable future instructors without coding backgrounds to understand and teach labs

PROJECTS

Database Project - Purdue University | Python, Flask, React, SQLite

- Collaborated with a group of three classmates to program a restaurant rating service similar to Yelp with SQLite as a focus
- Developed a simple user interface to facilitate adding, modifying, and deleting reviews with updates to the back-end database

Machine Learning/Computer Vision Project - Purdue University | Python, Pytorch

- Developed a custom machine learning model with a neural network to classify mahjong tiles based on image recognition
- Researched various convolutional neural networks architectures and methodologies to construct a custom neural network
- Curated a custom dataset to train and test a machine learning model, further improved with data augmentation

LEADERSHIP EXPERIENCE

Society of Asian Scientists and Engineers - Senior Advisor - Purdue University

May 2021 - Dec 2022

- Organized and led hands-on professional development activities and events for club members to enhance knowledge
- Established relationships with other student organizations to further relations and promote collaboration at future events
- Initiated and maintained professional connections with company organizations to promote career opportunities
- Coordinated administrative tasks and provided support to board members as needed for effective club management

Midwest Regional Conference (SASE) - Company Handler - Virtual

Jan 2021 - Feb 2021

- Assisted in planning and running a virtual conference for 150+ participants and ten companies
- Collaborated with company representatives to secure necessary materials for presentations during breakout sessions
- Monitored and managed waiting room queues for multiple companies in a virtual career fair on the Wonder platform

SKILLS

Languages: Python (Proficient), SQL (Proficient), C (Intermediate), Java (Intermediate), JavaScript (Intermediate)
Technologies: PyTorch, OpenCV, Flask, React
Tools: GitHub, LaTeX, AWS (EC2/S3), Hive, Hadoop, Docker
Soft Skills: Adaptability, Grit, Leadership, Time Management, Problem Solving, Self-Learning