

Syed Rizvi

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EDUCATION

College of Natural Science and Mathematics, University of Houston, TX

Bachelor of Science in Computer Science

May 2023

Cumulative GPA: 4.0, Major GPA: 4.0

EXPERIENCE

HULA Research Laboratory, Houston, TX

September 2020 - Present

Machine Learning Research Assistant

- Submitted paper to MICCAI conference proposing novel set transformer-inspired architecture for case-level renal disease classification
- Delivered presentation on a novel case-level classification architecture to over 100 medical professionals at the AI in Nephropathology Workshop in Amsterdam 2021
- Developed custom medical image annotation interfaces allowing for fine-grained grid label application using React and the Labelbox JavaScript API
- Delivered presentation on custom labeling schemes using LabelBox platform to computer vision group at the University of Buffalo, NY
- Assisted in development of novel style initialization technique for smoothing out data distributions in nephropathology datasets using style transfer algorithms

Taipei Medical University, Taipei, Taiwan

March 2021

Data Analyst Intern (Remote Work)

- Preprocessed and merged wearable device data measurements taken from 18 Taiwanese patients
- Created correlation matrix and time series visualizations between physical activity, circulation, fatigue, and sleep measurements taken over 9 months
- Explored time-lag cross correlations among patient data

INDEPENDENT PROJECTS

Autoencoder Anomaly Detection

August 2020

- Machine learning model aimed at anomaly detection in environmental sensor datasets from Amazon's Seattle Sphere conservatories
- Placed 3rd in the AWS & NVIDIA Environmental Hackathon (\$3000 award)
- Developed using Python, Pytorch, Jupyter Notebooks, and Amazon Sagemaker

TECHNICAL STRENGTHS

Programming Languages: Python, C++, JavaScript, Java, Octave, MATLAB

Libraries: Pytorch, Keras, Numpy, Pandas, Scikit-learn

HONORS AND AWARDS

Dean's Distinguished Scholars List, The University of Houston

Fall 2019 – Spring 2020

ACTIVITIES

Management Information Systems Student Organization

January 2020 – Present

Professional Development Committee

- Worked with a team of 20 committee members to perform 75 individual resume reviews following resume guidelines set by C.T. Bauer College of Business
- Delivered a presentation on IT candidate development during professional development workshop