

# 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 rapid grid-wise 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 3<sup>rd</sup> 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 leading up to recruiting season following resume guidelines set by C.T. Bauer College of Business
- Delivered a presentation on IT candidate development during professional development workshop