

Xueyan Mu

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EDUCATION

Rice University

B.A. in Computer Science and Studio Art
Expected 05/2023
GPA: 3.65/4.00

Houston, Texas

SKILLS

Languages : Java, Kotlin, JavaScript, Python, C

Technologies: D3.js, Android SDK, Bash, Flask, Tkinter, Jupyter, Fortran, Observable Notebooks, Git

EXPERIENCE

Poatek

Data Science Intern

Porto Alegre, BR

June 2021- Aug 2021

Design and development of machine learning models to improve security in automated onboarding process for first time bank account creators

- Implemented convolutional neural network (CNN) face verification between selfies and ID photos
- Dockerized ML model and deployed on Heroku
- Spearheaded Android app development with backend interaction with Heroku
- Scrum and Agile teamwork

YLaboratory

Data Visualization Intern

Houston, TX

Sept 2020- Present

- Building a user-friendly Django web application to take in user genes and output data visualizations.
- Developed interactive gene enrichment [heat map](#) using D3.js libraries.
- Created Python tool to analyze strength of correlation between classes of genes and disease phenotypes.
- Building increasingly complex visualizations throughout the year.

Rice University Climate, Water, and Energy Lab

GUI Developer

Houston, TX

May- Aug 2020

- Collaborated with a team of student developers to build a Python application for processing geologic and biologic evidence to model and reconstruct past climates.
- Spearheaded development of user-friendly [GUI design](#) in order to expand the usage of these models as accessible research and education tools.

Appalachian Mountain Club

Hut Crew

White Mountains, NH

May- Aug 2019

- Managed a backcountry lodge at 3,600 ft. elevation as part of a six person team.
- Cooked for 60 guests twice a day, participated in search and rescue operations, gave trail advice to hundreds, packed 70+ lbs of food up mountain twice weekly.
- Educated guests about conservation, wilderness ethics, and renewable energy technology through nightly programming.

PROJECTS

Roam

Solo Developer

Houston, TX

Dec 2019- Mar 2020

- Designed and created a static website giving a randomized local destination to walk to. An attempt to allow users to break free of the limited choice of 'filter bubble' and embrace chance, and develop a more intriguing pedestrian culture.

Design for America

Team Member

Houston, TX

Sept 2019- Jan 2020

- Collaborated with Memorial Herman Rehabilitation Hospital to fabricate a low cost, multi-functional assistive hand device increasing independence of spinal cord injury patients. Prototyped and iterated design based on patient feedback and repeated testing.