KYRAN ADAMS

Data Science, Machine Learning, & Software Engineering

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A computer science undergraduate with extensive experience in software design and development, data science modeling tools, formal methods for analyzing software, and machine learning models. In my spare time, I experiment with computer art and practice classical piano.

EDUCATION

7/17 – 5/21

Rice University: B.S. in Computer Science, Minor in Data Science (Houston, TX)

GPA: 3.8 / 4.0

SKILLS

Languages: Python, Java, R, JavaScript, Golang, Haskell, SQL, Ocaml, C, Matlab

Platforms & Libraries: Tensorflow, PyTorch, Numpy, Pandas, Plotly, Matplotlib, Snowflake, AWS, Airflow, Apache Spark, Hadoop MapReduce, Docker, React

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EXPERIENCE

5/20 – 8/20

Coinbase: Machine Learning Intern

- Facilitated building, testing, and understanding production machine learning systems.
- Saved $1,000,000 annually on Coinbase model development costs by designing a Sagemaker notebook management system.
- Designed and prototyped production ML model monitoring system. Built tools to interpret and visualize real-time ML models and systems at scale.

9/18 – 5/19

Rice Intelligent Software Systems Lab: Research Intern

- Investigated formal methods to guide the building of next-generation software systems.
- Researched a novel system based on Generative Adversarial Networks and abstract interpretation in order to define a theoretical notion for robustness of neural networks.

5/18 – 8/18

Rice Data Science Summer Program: Data Science Intern

- Built a tool for NASA to evaluate sample size sufficiency in exploratory research settings using less than 100 data points. This tool was applied to an experiment that predicted decreases in sensorimotor abilities after spaceflight.

10/17 – 5/18

McNair Center for Entrepreneurship and Innovation: Data Science Intern

- Developed web crawler and recurrent neural network to generate 40,000+ matchings between 300+ accelerator programs and their startups to analyze effectiveness of accelerator programs.

PROJECTS

1/20 – 5/20

Project Manager - Schlumberger Virtual Reality Training System (COMP 410)

- Led a team of 27 students to create a cloud-hosted employee training management platform that serves VR training modules and captures useful trainee analytics.
- Designed team workflow from ground up and worked with client to build a scalable, extensible, & secure system.

4/20

First Place - Rice COVID-19 Houston Response Projects

- Developed an interactive data visualization to explore the complex predictors that affect mobility during COVID-19 with a focus on policy implications.

12/19 – 1/20

Narcissus - Neural Art Installation

- Created a neural network system to calculate facial features of a viewer and create a corresponding imaginary celebrity. Installed in Rice Media Center.

4/18 – 5/18

Natural Adversarial Example Finder for Neural Networks in Health

- Implemented system for finding realistic MRI images that fool cancer-detecting models.