Rylie Foster

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(707) 363 - 7237

Education

Bachelor of Arts, Mathematics and Computer Science
Reed College
2018 - 2022
- Took classes in math, computer science, physics, and humanities with extensive writing focus
- Wrote a 73-page thesis on techniques in matrix analysis and equation-free data modeling
- Implemented a Convolutional Neural Net in PyTorch with multithreaded k-fold validation

Work Experience

Student Teaching Consultant
Reed College
September 2021 - December 2021
- Observed a professor's classes two to three times per week
- Had weekly meetings to discuss strategies for reaching classroom goals

Supervisor
Napa STEM Academy
June 2019 - August 2019
- Worked to create engaging scientific demonstrations and activities for Napa's K-8 students

Skills

Programming
- Python
- C++

Data Science
- PyTorch
- CNN's
- RStudio
- Numpy

Mathematics
- Calculus
- Statistics

Writing
- Technical Writing
- Code Documentation

Research
- Wrote a 73-page survey of techniques in Data-Driven Modal Analysis

Other
- Two years of Reed College's physics program completed

Other Work

- "An Introduction to Data-Driven Modal Analysis", senior thesis: https://github.com/ryliefoster/thesis