

Nathan Reilly

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EDUCATION

The Pennsylvania State University, University Park, PA

December 2022

College of Information Sciences and Technology

Bachelor of Science, Applied Data Science, **Cumulative GPA: 3.53**

RELVANT COURSEWORK

- Data Management, Organization of Data, Statistical Data Science, Data Integration, Machine Learning and Data Analysis, Data Privacy and Security, Data Visualization, Elementary Probability

SKILLS

- Programming: Python, R, C++, JavaScript
- Database: SQL, MongoDB, Redis
- UI/UX: Adobe Photoshop and Lightroom

PROJECT EXPEREINCE

COVID-19 CT Image Classification

Nov. 2021 – Dec. 2021

- Designed and implemented XGBoost classifier to determine the presence of COVID-19 within CT images
- Model trained on 18000 and tested on over 3000 images achieved 97.6% accuracy

Wells Fargo Fraud Prediction – Campus Analytics Challenge

Sept. 2021 – Oct. 2021

- Independently designed and developed a Random Forest model to predict the fraudulence of a Wells Fargo bank transaction

OpenVessel – Startup Employee

Sept. 2020 – Present

- Debugged and documented deep learning pipelines in Python for a fast-paced startup engaged in the application of AI in radiological medicine, resulting in model with greater than 65% accuracy
- Developed methods such as alternative HU value extraction, data sorting according to metadata value for large image datasets

Nittany Data Labs

Jan. 2020 – Present

- Attend weekly educational meetings about data science topics through interactive Jupyter Notebooks and collaborate on projects with club members; current educational sessions pertaining to Amazon AWS Cloud Computing

ADDITIONAL EXPERIENCE

BMRA Virtual Production Summer Intern

May 2021 – Aug. 2021

- Facilitated and managed Adobe Connect contracting courses to ensure successful learning environment for participants

THON Dancer Relations Committee Member

Oct. 2020 – Present

- Volunteer in world's largest student run philanthropy
- Provided any assistance need to dancers during THON weekend in order for them to have a successful weekend

Penn State Hockey Instructor

Sept. 2019 - Present

- Instructed individual and team hockey drills to improve player skills while promoting a safe atmosphere

Service Dog Training

Jun. 2018 – Present

- Trained diabetic alert dog to detect the scent of low and high blood sugars to produce live alerts