Garrick Suemith

Data Scientist and Educator with 3 years in computational modeling, 2 years experience in teaching, and 1 year project experience in Machine Learning

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EXPERIENCE

Physics Teacher — *Bishop O'Connell High School*

AUGUST 2017 - AUGUST 2019 - ARLINGTON, VA

Taught Honors Physics and Physics-based Engineering. Introduced computational modeling to mostly first-time programmers.

Youth Director — *Blessed Sacrament Catholic Church*

SEPTEMBER 2016 - MARCH 2019 - ALEXANDRIA, VA

Coordinated service, educational, and athletic programs for middle and high school youth. Built and maintained websites for promoting programs and registration pipelines.

Lab Intern — *George Mason University Nuclear Resonance Lab*

MAY 2013 - DECEMBER 2013 - FAIRFAX, VA

Aided in the conversion of nuclear resonance magnetometer to femtotesla-sensitive gradiometer. Designed and implemented electromagnet to distinguish spatial channels within magnetometer.

PROJECTS

CNN Feature Visualization — *SharpestMinds Mentorship*

Plotted activation maps of layers within pre-trained CNN's that displayed recognizable patterns of image features.

Income Level Classifier — *Udacity Project*

Explored Scikit-Learn's comprehensive library of Machine Learning models to find potential donors out of California census data.

Transfer Learning Image Classifier — *Udacity Project*

Built scripts using the Pytorch Deep Learning library for training the Fully Connected layers of pretrained torchvision models. Scripts run on GPU.

NLP Disaster Response Pipeline — *Udacity/Figure Eight Project*

Trained a machine learning pipeline to classify messages originating from disaster areas and implemented it in a web app to help emergency workers evaluate the importance of similar messages.

EDUCATION

Physics — *University of Virginia*

Rigorous training in Quantum Mechanics, Statistical Mechanics, Electrodynamics, and Computational Physics.

SKILLS

Python, Java, C/C++, HTML

SQL, Git, Pandas, Numpy, Scikit-Learn, PCA, PyTorch, NLP, ETL Pipelines, Flask

Statistics, Machine Learning, Neural Networks, OOP, Linear Algebra, Advance Calculus, Complex Analysis, Experiment Design, Physics Modeling

CERTIFICATIONS

Intro to Machine Learning – *Udacity Nanodegree*

Data Science –*Udacity Nanodegree*