

Garrick Suemith

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

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.

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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