Matthew Daw

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Education

BS, Applied & Computational Mathematics Emphasis (ACME) **September 2019 - April 2022**
Brigham Young University *Provo, Utah*
- GPA: 3.82

Associate's Degree, General Education **September 2015 - April 2017**
Utah Valley University *Orem, Utah*
- GPA: 3.95
- One of two students in graduating class to complete during High School

Relevant Proficiencies

Programming Language/Tools
- Python
- Pytorch
- C++/Java/C#
- Vue JS / Node JS
- HTML/Javascript/CSS

Programming Focuses
- Self-Supervised Learning
- Transformers
- Computer Vision
- Time Series Analysis

Mathematical Concepts
- Theory of Analysis
- Differential Equations
- Multivariable Calculus
- Linear Algebra
- Statistics

Experience

Summer Intern, Autonomy Technology Research Center **May 2021 - Present**
Data Science Researcher for the US Air Force *Remote From Dayton, Ohio*
- Develop and publish original self-supervised object detection and tracking algorithms

Data Science Intern **May 2021 - Present**
Zero Homes Stealth Startup *Pleasant Grove, Utah*
- Help develop machine learning algorithms to predict house usage and optimize heat control

Company Trainer and Business Strategist **May 2020 – Present**
Source Hive *Remote From Accra, Ghana*
- Hired and training two full time Ghanaian programmers for outsourcing work

BYU Research Assistant **September 2020 – May 2021**
Forest Fire and Water Shed Analytic *Provo, Utah*
- Created deep learning model to predict water flow of rivers
- Created tool with user interface for data manipulation and automatic data cleaning

BYU Research Assistant **November 2019 – May 2020**
Web Developer *Provo, Utah*
- Full stack web development for ancient Assyrian database, see https://oare.byu.edu/

Full-Time Volunteer Representative **July 2017 – July 2019**
The Church of Jesus Christ of Latter-day Saints *Accra, Ghana*
- Supervised and motivated 16 volunteers to help them work better and more efficiently

Relevant Projects

Major Projects **August 2020**
- Combine graph neural network with original state of the ard transformer architecture for self-supervised object detection
- Time series stock analyzer, capable of generating 150% annual interest, currently not fully tested or in use

Data Science Student Projects **July – August 2020**
- Algorithms studied and implemented include, but are not limited to, Transformers, DINO, Variational Autoencoders, Thompson Sampling, SVM Regression, Deep Q-Learning, Self-Organizing Maps, and Recurrent Neural Networks https://github.com/MatthewDaw