ETHAN JOSEPH

COMPUTER SCIENCE STUDENT



CONTACTS



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sirmammingtonham.github.io



ABOUT ME

Fast learning and motivated computer science student with a passion for artificial intelligence. Seeking an internship position for summer 2020 where I can leverage my problem solving skills and knowledge in machine learning.



AWARDS

- Eagle Scout
- Rensselaer Leadership Award



TECHNICAL SKILLS

Languages:

Python, C++, Java, JavaScript, HTML/CSS, MATLAB, some x86

Tools:

Git, Amazon AWS, IDA, Sublime Text 3, Jupyter, PyCharm, IntelliJ IDEA

Libraries and Frameworks:

PyTorch, TensorFlow, NumPy, Matplotlib, Pandas, Node.js

Platforms:

Windows, Linux



CLUBS AND HOBBIES











Making Things

Music

Video Games

EDUCATION

Undergrad CS

Expected: 2023

Rensselaer Polytechnic Institute: Troy, NY Current Coursework: Data Structures, Calculus II, Physics I, AI and Society.

High School

San Fransisco University High School 2015-2019

GPA: 3.80, Tennis Team Captain

Machine Learning

2017-Present

Self Study - Online Courses and Projects

Courses include: Coursera Machine Learning, Practical Deep Learning for Coders, and Deep Reinforcement Learning

EXPERIENCE

Research Internship Summer 2018

Deep North Al: Foster City, CA

Worked with an engineer to develop and train facial recognition models for the WIDER Face Challenge 2018, scoring in the top 3 globally. Learned a tremendous amount about object detection, time management, collaborative coding, and evaluating machine learning models.



PROJECTS AND AI



futureMAG 2019

AI Generated Magazine

Used a gpt-2 neural network finetuned on articles scraped from various online publications to create a fully automated publication: medium.com/futureMAG Improved my skills in NLP and utilizing web APIs.



AIART 2019

AI Generated Art Project

Tested various concepts in AI Art Generation, including Generative Adversarial Network image generation, style transfer, and neuron visualization. Gained a deeper understanding of GANs and PyTorch.



WorldWide **占** 2019

an Exploration in the History of Web Design

Started out as a project to learn more about web dev. ended as my final project for an English class. Acquired skills in web development and javascript.

sirmammingtonham.github.io/worldwide



2018

AlphaStone Hearthstone Al Agent

My first coding project. Adapted DeepMind's AlphaZero algorithm to train an AI to play the card game Hearthstone from no prior knowledge of the game. Learned a lot about Python, reinforcement learning, neural networks, git, and debugging.



3d Printed Guitar 2016-2017

and Amp

3d printed an electric guitar body with sound responsive leds. Used a Raspberry Pi for led control and accompanying amp. Gained experience in detailed work and using linux.