ETHAN JOSEPH

COMPUTER SCIENCE STUDENT

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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, PyCharm, IntelliJ IDEA

Libraries and Frameworks:
PyTorch, TensorFlow, NumPy, Matplotlib, Pandas, Node.js

Platforms:
Windows, Linux

CLUBS AND HOBBIES

Outing Club   **RPISEC**   **Tennis Club**

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
2015-2019

San Fransisco University High School
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 AI: 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
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

AlphaStone
2018

Hearthstone AI 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.**