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++, C, Dart, Java, JavaScript, HTML, MATLAB, MIPS, some x86

Tools:
Git, Amazon AWS, IDA, Sublime Text 3, PyCharm, IntelliJ IDEA

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

Platforms:
Windows, Linux, Android

CLUBS AND HOBBIES

Outing Club

RPISEC

Tennis Club

Making Things

Guitar

Video Games

🎓 EDUCATION

Undergrad CS
Expected: 2023

Rensselaer Polytechnic Institute: Troy, NY
GPA: 3.83, Relevant Coursework:
Data Structures, Foundations of Computer Science, Computer Organization, AI and Society

High School
2015-2019

San Francisco University High School
GPA: 3.80, Tennis Team Captain,
Science Olympiad Founding Member

💼 EXPERIENCE

NLP Research
Spring 2020

Dr. Mei Si: RPI: Troy, NY
Researching data-to-text generation with Professor Mei Si, with the goal of being able to turn tabular data into rich human readable summaries. Using transformers and other state-of-the-art NLP technologies.

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.** Used Darknet YOLO and MATLAB for evaluation.

PROJECTS AND AI

SmartRider
2020

RPI Shuttle, Bus, and SafeRide App
Project manager for a team of 15, leading a new project in the Rensselaer Center for Open Source. SmartRider will be the all-in-one transportation app for the RPI community. Using Google's Flutter framework.

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.**