

Jamie Weiss

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Education

Tufts University Class of 2021

Medford, MA

Data Science Engineering

Expected May 2021

Relevant Coursework: Comp11 - Intro to Computer Programming, Comp15 - Data Structures, Comp40 - Intro to Machine Structure, Probability, Probabilistic Systems Analysis, Calculus III, Discrete Mathematics

Languages: Python, Java, C, C++, MATLAB, Flask Framework, HTML, Javascript, SQL

Manhasset High School Class of 2017

Manhasset, NY

Experience

American Express

New York, NY

Machine Learning Information Security Summer Intern

June 2019 – August 2019

- Created a full-stack machine learning pipeline with automated parameter optimization for Principle Component Analysis, t-Distributed Stochastic Neighbor Embedding, K-Means Clustering, DBScan, Local Outlier Detection, and Isolation Forests.
- Participated in a firm-wide hackathon and built a recommendation tool using Natural Language Processing algorithms for a company-wide coding challenge: 2nd place winner.

New England Patriots

Foxborough, MA

Software Engineering Intern

July 2018 – September 2018

- Creation of a comprehensive and automated testing suite to aid in the conversion of python2 to python3
- Utilized tools such as Flask, Pytest, and SQL queries to facilitate the end to end test runs
- Participated in activities such as debugging, pair programming, and code reviews to ensure the creation of high quality software deployment

Summer Research

Medford, MA

Research Intern

May 2018 – August 2018

- Medical Image Classification using Machine Learning
- Labeled data to train a neural network model and worked in a team to debug
- Leveraged Logistic Regression and Neural Networks and their applications to real-life problems.

Academic Projects

Manhasset, NY - Medford, MA

Computer Programming

September 2015 – December 2018

- Created a College Football play prediction classifier in python, using various machine learning algorithms such as: decision trees, logistical regression and neural networks
- Created a lossy image compressor and decompressor in C, applying bit packing and manipulation techniques
- Developed a Virtual Machine, in C, with 8 general purpose registers, segmented memory, and an I/O device able to display ascii characters. Wrote machine instructions in Assembly that use the VM to execute various programs like a Postfix Calculator
- Encrypted and decrypted audio file embedded watermarks to prevent illegal sharing of music
- Researched dynamical systems theory and presented work at the Al Kalfus Long Island Math Fair

Interests & Activities

Interests: Artificial Intelligence, Machine Learning, Cyber Security

Activities: Tufts University Varsity Baseball, Big Brothers Big Sisters, Team Impact, SAAC