TOMMY WHITE

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EXPERIENCE

Research Assistant
Dartmouth College/Dartmouth Security and AI Lab

📅 Sept 2018 – March 2021   📍 Hanover, NH

- Developed and formalized novel algorithms in the fields of Collective Classification and Graph Neural Networks.
- Applied these algorithms to Social Network prediction problems.
- Managed datasets with terabytes worth of data as well as the computation jobs used to process and analyze this data.

Software Engineering Internship
Amazon.com

📅 Jan. 2017 – Dec. 2017   📍 San Luis Obispo, CA

- Worked as part of a Prime server team; my code has directly affected millions of transactions.
- Redeveloped our code deployment pipeline and rollback system to enable my team to quickly recover from issues in production code.
- Developed API to facilitate automatic upselling of Prime memberships to customers based on their current membership status, region, and other factors.

PROJECTS

Social Network Analysis for Cryptocurrency Price Prediction
Dartmouth Security and AI Lab

📅 Feb. 2019 – March 2021

- Developed algorithms to score social media users based on the relationship between analysis of social media interaction graphs and price fluctuations of various cryptocurrencies.
- Organized and monitored tens of thousands of hours of computation time to complete the experiments.
- Presented results at 2019 IEEE Blockchain Conference in Atlanta, GA. Journal paper is a work in progress.

Counter-terrorism Graph Time Series Analysis
Dartmouth Security and AI Lab

📅 Oct. 2018 – March 2021

- Explored prediction problems in a social network styled dataset which included thousands of terrorists and hundreds of terroristic factions as members.
- Improved predictive performance by generating novel features based on centrality, flow, and balance metrics.
- Primarily using centrality metrics across monthly subnetworks of terrorist factions.

EDUCATION

MS in Computer Science
Dartmouth College, Hanover, NH

📅 Projected December 2021

- Research work focused on machine learning as applied to social networks.
- Coursework focused on...

BS in Computer Science
Cal Poly, San Luis Obispo, CA

📅 September 2014 – June 2018

- Graduated on time and with honors (3.7 GPA).
- Completed interdisciplinary minor in Data Science supervised by Professors Alex Dekhtyar and Dennis Sun.
- Undergraduate studies were tailored to get a broad background in machine learning, software engineering, and statistics.

SKILLS

Python ●●●●●
Pandas, Numpy ●●●●●
Pytorch, Scipy, SKLearn ●●●●○
Latex, Markdown ●●●●○
Java ●●●●○
C/C++ ●●●○○
Git ●●●○○
R/ggplot ●●●○○

TECHNICAL SKILLS

Build Systems Experience

Command Line Tools

Data Aggregation and Cleaning

Data Scraping   Deep Learning

Functional Programming

Large Scale Computation

Object-Oriented Programming

Parallel Computing   Software Design

Statistical Modeling and Testing