# 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