

# 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.

### Teaching Assistant

#### Dartmouth College

📅 Nov. 2020 – March 2021 📍 Hanover, NH

- Produced and graded educational materials for a class in Applied Computing.
- Hosted office hours and TA lessons virtually without issue.

### Software Engineering Internship

#### Amazon.com

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

- Worked a bit.

## PROJECTS

### Social Network Analysis for Cryptocurrency Price Prediction

#### Dartmouth Security and AI Lab

📅 Feb. 2019 – March 2021

- Developed algorithms to score an author based on the relationship between user posts and price fluctuations of different 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.

## PURPOSE

To earn some money while tackling challenging problems related to machine learning, data science/management, cybersecurity, or general software development.

## 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

Java

C/C++



## 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