

# 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 of data as well as the thousands of computation jobs used to process and analyze this data.

### Junior Developer

#### Amazon.com

📅 Jan. 2017 – Dec. 2017

📍 San Luis Obispo, CA

- Worked as part of an Amazon Prime server team; my code has directly affected millions of transactions.
- Reworked the code deployment pipeline and rollback system to facilitate faster recovery 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 predict future prices of top cryptocurrencies by analyzing massive amounts of social media data.
- Organized and monitored tens of thousands of hours of computation time to complete the experiments.
- Presented results at **2019 IEEE International Conference on Blockchain and Cryptocurrencies** in Atlanta, GA.

### 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.
- Designed and tested novel algorithms and techniques to use on this uniquely challenging dataset.
- Improved predictive performance by generating novel features based on centrality, flow, and balance metrics.

See more of my experience/projects at [tommy-w.com/](https://tommy-w.com/)

## EDUCATION

### M.S. in Computer Science

#### Dartmouth College, Hanover, NH

📅 November 2021

- Research work focused on machine learning as applied to social networks.
- Coursework focused on machine learning, cryptography, and applied computation.

### B.S. in Computer Science

#### Cal Poly, San Luis Obispo, CA

📅 September 2014 – June 2018

- Graduated with honors (3.7 GPA).
- Completed minor in Data Science (requiring 18 specified CS and Statistics courses).
- Developed a foundation in machine learning, software engineering, and statistics.

## PROGRAMMING SKILLS

Python

Pandas, Numpy, Scipy, SKLearn

Git

PyTorch, Keras

C/C++

LaTeX, Markdown

Java

R/ggplot

JavaScript/CSS

SQL



## TECHNICAL SKILLS

Abstract Problem Solving

Build Systems

CLI Tools

Code Profiling

Data Driven Analysis

Data Visualization

Deep Learning

Distributed Computation

Functional Programming

Large Scale Computation

Linux

Machine Learning

Object-Oriented Programming

Optimization

Parallel Computing

Shell Utilities

Software Design

Statistical Modeling and Testing