

# TIMOTHY WANG

## SOFTWARE ENGINEER

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## Skills

### PROGRAMMING

Java

C

Python

Machine Learning

C#

Apache Spark

Apache Hadoop

JavaScript

Bash

### PLATFORMS

Windows

Linux

Mac OSX

## Coursework

Algorithms

Programming Languages

Data Science

Discrete Structures

Computer Systems

Java and Data Structures

Object Oriented

Programming

Foundations of

Cybersecurity

## Education

University of Maryland, College Park

BSc - Computer Science & Mathematics 2019

GPA: 4.0 | QUEST Program | ACES Honors College | Presidential Merit Scholar | National Merit Finalist

## Employment

Sift Science

San Francisco, CA

Software Engineering Intern

Jun 2017 - Aug 2017

- Engineered new features that improved AUC & PR model scores
- Parallelized feature extraction and optimized experimentation pipeline with MapReduce
- Implemented parallelized n-gram Naive Bayes text classification models via PySpark and Apache Spark

University of Maryland, College Park

College Park, MD

Undergraduate TA for CMSC132 (Java and Data Structures)

Jan 2017 - May 2017

- Led 2 recitations weekly to reinforce classroom concepts and introduce new material
- Held multiple office hours a week to address individual questions from students

Cipher Systems

Annapolis, MD

Software Development Intern

Dec 2016 - Feb 2017

- Developed Natural Language Processing microservice in Java using Stanford's CoreNLP
- Fixed bugs and optimized existing code base in C#

Content Analytics

San Francisco Bay Area, CA

Software Engineering Intern

Oct 2016 - Jan 2017

- Developed image and video comparison software and a REST API to measure and improve E-Commerce for multiple Fortune 500 companies
- Engineered data transfer architecture between Amazon S3 and Adobe's Scene7 to facilitate future cloud services

University of Maryland, College Park

College Park, MD

Undergraduate Research Fellow

May 2016 - Oct 2016

- Researched and optimized Pollard's Rho semi-prime factorization algorithm by 1200%

## Projects & Activities

Consult Your Community - Business Analyst

Dec 2016 - Current

- Provided pro-bono consulting services and machine learning tool to restaurant dining start-up, Spotluck

Supermodel

Jun 2017 - Current

- A web application that automatically generates hyper-tuned machine learning models for mainstream use

Bipartisan (HopHacks @ Johns Hopkins University)

Feb 2017

- A web application that leverages machine learning to filter credible news
- Created natural language processing pipeline to extract sentiment, entity analysis, and N-grams
- Wrote scripts that utilized various APIs to stream in thousands of news articles a minute

SagaciousAnalytics

Jan 2017

- A Neural Network implemented in Python that uses emotion detection to analyze effectiveness of promotions

Method to the Madness (Big Red // Hacks @ Cornell University)

Oct 2016

- Developed a forward feeding neural network in Java that predicts collegiate basketball results in March Madness settings
- Extracted and interpreted statistics externally by using Python data scraping and JavaFX