

TIMOTHY WANG

SOFTWARE ENGINEER

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Skills

PROGRAMMING

Java

C

Python

Machine Learning

C#

Apache Spark

Apache Hadoop

JavaScript

Bash

Git

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 2020

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

Employment

Sift Science

Software Engineering Intern

San Francisco, CA

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

Undergraduate TA for CMSC132 (Java and Data Structures)

College Park, MD

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

Software Development Intern

Annapolis, MD

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

Software Engineering Intern

San Francisco, CA

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

Undergraduate Research Fellow

College Park, MD

May 2016 - Oct 2016

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

Projects & Activities

Supermodel - Team Lead

Jun 2017 - Current

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

Consult Your Community - Business Analyst

Feb 2017 - May 2017

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

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