

TIMOTHY WANG

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Skills

PROGRAMMING

Java
C
Python
Machine Learning
C#
Apache Spark
MapReduce
JavaScript
Bash
Git

PLATFORMS

Windows
Linux
Mac OS X

Coursework

Algorithms
Programming Languages
Data Science
Discrete Structures
Computer Systems
Java and Data Structures
Object Oriented Programming
Foundations of Cybersecurity
Statistics

Education

University of Maryland, College Park
BSc - Computer Science & Mathematics 2020
GPA: 4.0 | QUEST | ACES Honors College | Presidential Merit Scholar | National Merit Finalist

Employment

Sift Science San Francisco, CA
Software Engineering Intern Jun 2017 - Aug 2017

- Implemented parallelized N-gram Naive Bayes text classification models via PySpark, Apache Spark, and Jupyter notebooks
- Improved Ensemble machine learning models used to analyze ~150 million daily events
- Parallelized feature extraction and scaled experimentation pipeline with MapReduce
- Engineered new features that improved AUC & PR model scores

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, CA
Software Engineering Intern Oct 2016 - Jan 2017

- Developed image and video comparison Rest API to measure and improve E-Commerce for multiple Fortune 500 companies
- Engineered data transfer architecture between Amazon S3 and Adobe's Scene7

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

Supermodel Jun 2017 - Present

- A web application that automatically generates hyper-tuned machine learning models for mainstream use
- Implemented using scikit-learn, Gridsearch, and hyperparameter search space pruning

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 and big data technologies such as Python and AWS to filter credible news
- Created NLP 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