TIMOTHY WANG

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Skills

PROGRAMMING

Java

C

Python

Machine Learning

C#

Apache Crunch

MapReduce

JavaScript

Bash

Git

PySpark

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 and memory efficient Naive Bayes text classification Machine Learning models via Apache Crunch, MapReduce, Hadoop, PySpark, and Jupyter notebooks
- Improved Ensemble models used to analyze ~150 million daily events
- Parallelized feature extraction and scaled offline training pipeline with MapReduce
- Engineered 100+ new features that improved model performance

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 tool 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

University of Maryland's Ballmers Peak Aug 2017 - Sep 2017
- Built interactive web application using Flask and SQLite3
- Hosted the University of Maryland's first Ballmer's Peak coding competition

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

Method to the Madness | Big Red // Hacks @ Cornell University Oct 2016
- Developed a forward feeding neural network from scratch in Java that predicts collegiate basketball results in March Madness settings