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 machine learning models used to analyze ~150 million daily events
- Parallelized feature extraction and scaled offline training pipeline with MapReduce
- Engineered 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