TIMOTHY WANG

SOFTWARE ENGINEERING INTERN

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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 — 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, Apache Spark, and Jupyter notebooks

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 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

Supermodel | Team Lead — 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
- Extracted and interpreted statistics externally by using Python data scraping and JavaFX