Timothy Wang

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EDUCATION

UNIVERSITY OF MARYLAND

B.Sc - Computer Science
May 2020 | College Park, MD
GPA: 4.0 / 4.0
QUEST • ACES Honors College
Presidential Merit Scholar
National Merit Finalist
Dean's List

LINKS

Github:// **timtim305**
LinkedIn:// **timothyxwang**

COURSEWORK

UNDERGRADUATE

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

SKILLS

PROGRAMMING

Java
C
Python
Machine Learning
Apache Crunch
MapReduce
JavaScript
Bash
Git
PySpark

PLATFORMS

Linux
Windows
Mac OSX

EXPERIENCE

SIFT SCIENCE | Software Engineering Intern

June 2017 – Aug 2014 | San Francisco, CA

- Implemented parallelized, memory efficient Naive Bayes text classification Machine Learning models via Apache Crunch & Spark, MapReduce, and Jupyter
- Developed Ensemble models used to analyze 150 million daily events
- Parallelized feature extraction and scaled offline training pipeline with MapReduce that reduced Machine Learning experiment runtimes by 40%
- Engineered 100+ new features that improved model performance

UMD COMPUTER SCIENCE DEPT. | Teaching Assistant

Jan 2017 – May 2017 | College Park, MD

- Undergraduate TA for CMSC132: Advanced Java and Data Structures
- Led 2 weekly recitations and 4 weekly office hours

CIPHER SYSTEMS | Software Development Intern

Dec 2016 – Jan 2017 | Annapolis, MD

- Developed Natural Language Processing microservice in Java to semantically tag news articles using Stanford's CoreNLP library

CONTENT ANALYTICS | Software Engineering Intern

Oct 2016 – Jan 2017 | San Francisco, CA

- Developed image and video comparison tool and internal API to measure and improve E-Commerce for multiple Fortune 500 companies

RESEARCH

UMD COMPUTER SCIENCE DEPT. | Undergrad Research Fellow

May 2016 – Aug 2016 | College Park, MD

- Optimized Pollard's Rho semi-prime factorization algorithm by 1200%
- Worked with Prof. Bill Gasarch and other UMD students

PROJECTS & ACTIVITIES

BALLMER'S PEAK - UMD | Aug 2017 - Sep 2017

- Built web app using Flask and SQLite3 to host a coding competition

SUPERMODEL | June 2017 - Current

- A web application using scikit-learn and GridSearch to generate hyper-tuned machine learning models for mainstream use

CONSULT YOUR COMMUNITY | Feb 2017 - May 2017

- Provided pro-bono consulting services and Machine Learning deliverable for a local business

BIPARTISAN | Feb 2017

- A web application that leverages machine learning to filter credible news
- Created NLP pipeline to tokenize text and extract sentiment & entities

METHOD TO THE MADNESS | Oct 2016

- Implemented a neural network from scratch in Java to predict results for March Madness collegiate basketball games