

Timothy X. Wang

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EDUCATION

University of Maryland, College Park

College Park, MD

B.Sc. in Computer Science & Mathematics

May 2020

GPA: 4.0/4.0 | QUEST Honors Program | ACES Honors College | Presidential Scholar | National Merit Finalist

SKILLS

Java, Machine Learning, Python, C, C#, MapReduce, Apache Crunch, PySpark, Hadoop, Bash, SQL

EXPERIENCE

Sift Science | Software Engineering Intern

San Francisco, CA

June – Aug 2017

- Implemented parallelized and memory efficient Naïve Bayes text classification Machine Learning models that process ~12TB of data
- Developed Ensemble models used to analyze 150 million daily events
- Parallelized feature extraction and scaled offline training pipeline with MapReduce that lowered Machine Learning experiment runtimes by 40%
- Engineered 100+ new features that improved model performance

University of Maryland- Dept. of Computer Science | Undergraduate Teaching Assistant

College Park, MD

Jan – May 2017

- Undergraduate TA for CMSC132: Advanced Java and Data Structures
- Led 2 recitations per week and multiple weekly office hours to reinforce concepts and introduce new material

Cipher Systems | Software Development Intern

Annapolis, MD

Dec 2016 – Feb 2017

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

ContentAnalytics | Software Engineering Intern

San Francisco, CA

Oct 2016- Jan 2017

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

RESEARCH

University of Maryland- Dept. of Computer Science and Math | Undergraduate Research Fellow

College Park, MD

May – Oct 2016

- Researched and optimized Pollard's Rho factorization algorithm by approximately 1200%
- Worked alongside Professor Bill Gasarch and a diverse team of fellow UMD students

PROJECTS & ACTIVITIES

University of Maryland's Ballmer's Peak

Aug – Sep 2017

- Built interactive web application using Flask and SQLite3 for UMD's first Ballmer's Peak coding competition

Supermodel

June 2017– Current

- Web application using scikit-learn and GridSearch to generate hyper-tuned machine learning models

Consult Your Community | Business Analyst

Feb – May 2017

- Provided pro-bono consulting services and machine learning tool to local restaurant dining start-up, Spotluck

Bipartisan

Feb 2017

- A web application that combats misinformation by leveraging machine learning to filter credible news
- Created natural language processing pipeline to tokenize text and extract sentiment and entity analysis

Method to the Madness

Sep 2016

- Developed a Neural Network from scratch in Java that predicts March Madness collegiate basketball results