

Career Center

Master's Tech Resume Example

John Doe

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EDUCATION

Duke University

Master of Science in Computer Science; GPA: 3.7

Durham, NC

Aug. 2017 – May 2019

XXX University

Bachelor of Science in Computer Science; Major GPA: 3.7/Overall: 3.6

Granville, OH

Aug. 2013 – May 2017

Bachelor of Arts in Mathematics

Minor in Economics

PROGRAMMING SKILLS

Programming Languages: Python, C/C++, Java, R, SQL, Scala, Spark

Skills: AWS, Hadoop, MongoDB, Django, Arduino, Stata, Mathematica, HTML, LaTeX

PROJECT & INTERNSHIP EXPERIENCE

Klaviyo Weather Powered Email

Durham, NC

Full Stack Project

Jan. 2017

- **Functionality:** Designed a full stacked web application in Django, where it takes the sign-up forms from users and send personalized emails based on the subscribers' location and the current weather at that location.
- **Frontend & Backend:** Front-end is written in HTML with CSS styling. Back-end stores the subscribers' information in MySQL.

Perceptron Clustering on Wikipedia Data

Granville, OH

Senior Project

Mar. 2017 – May 2017

- **Data Download:** Designed a MPI (Message Passing Interface) program that utilizes 20 Linux machines to download around 5 Terabytes data in an efficient manner.
- **Data Clean:** Wrote two MapReduce jobs in Java to clean the data in HDFS(Hadoop Distributed File System).
- **Data Transportation:** Wrote bash scripts to handle massive data transportation from local machines to HDFS.
- **Parallel Querying:** Incorporated 2 parallel computing libraries MPI and Pthreads to achieve the parallel querying on Wikipedia query API website, and achieved a dramatic speedup.
- **Parallel Data Analysis:** Designed a data analysis program with SQL database in serialized Python version. Same result was also achieved in parallel MapReduce version after assigning the database into a distributed file system.
- **Literature & Presentation:** Demonstrated the procedure and the mechanism behind such multi-parallel hybrid system in paper. Presented and addressed the result of the analysis, the limitations of existing hardwares, and the potential future problems.

Data Streaming Algorithms for the Chi-Square Test

Granville, OH

Software Engineer/Research Scholar

Summer 2016

- **Algorithm Design:** Designed 4 streaming algorithms for 3 variants of the Chi-square Test with minimum assumption of the stream.
- **Algorithm Implementation:** Implemented the algorithms with experiment evaluations and basic streaming fashion statistics, open-sourced on GitHub.
- **Experiment Evaluation:** Validated the performance of results through extensive testing on both real and synthetic data sets on a large-scale (stream size $n \approx 107$).
- **Literature & Presentation:** Submitted a ten-page paper to IEEE 2017 conference. Presented research findings at the Anderson Program Science Symposium.

CONTESTS

1st Place, 2017 Regional Programming Contest, hosted by Ohio Wesleyan University

Delaware, OH

1st Place, 2017 Ohio Four College Math Contest, hosted by Wittenberg University

Springfield, OH

Participant, 2014 & 2016 ACM ICPC East Central North America Regional Programming Contest

HONOR

Upsilon Pi Epsilon, Computer Science Honor Society

Apr. 2016

Pi Mu Epsilon, Mathematics Honor Society

Apr. 2016

Mortar Board National Senior Honor Society

Apr. 2016

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