CHESTER HOLTZ

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EDUCATION

University of Rochester, Rochester, NY
Honors B.S. in Computer Science with Minor in Mathematics *June, 2017*

SKILLS

Languages Java, C/C++, Lisp, Python, JavaScript, SQL, Matlab
Tools Git, SVN, Vim, Bash, Excel, LaTeX, Mathematica, limited GDB experience

RESEARCH AND WORK EXPERIENCE

Research Experience *University of Rochester*

· Visual Intelligence & Social Media Analytics (VISTA) Working as a Research Assistant supporting Professor Jiebo Luo's research group in projects involving computer vision, big data analysis, data mining, and machine learning.
· Simon School of Business supporting Professor Sudarshan and his students' research in projects involving the application of various machine learning techniques to issues in Business and Political Science.

TA Experience *University of Rochester*

· CSC242 Artificial Intelligence (workshop leader & TA)
· CSC172 The Science of Data Structures (workshop leader & TA)
· CSC171 Introduction to Computer Science (workshop leader & TA)
· CSC161 The Art of Programming (TA)

JPM Chase Summer, 2016
Internship *New York, NY*

· Summer 2016

SELECT PROJECTS (NON-COURSEWORK)

Lisp GC

· Performed analysis and wrote paper on three classic garbage collection algorithms. Implemented parser, evaluator, REPL etc. and 3 garbage collectors Cheneys algorithm, Mark-Sweep with Tri-color marking, and Knuths classical Lisp 2 algorithm in C++.

Philosoph Trump

· Generated tweets using an implementation of the MCMC algorithm on data collected from Trump's Twitter and Reddit's /r/philosophy subreddit. Current work involves training a query-response SMT model on a corpus composed of 5m tweets and reddit comments.

Reddit News

· Post accumulator extension for Google Chrome. Built with JavaScript. Utilized AJAX and local storage to update the post listings and save user preferences.

SELECT ACADEMIC EXPERIENCES

Relevant Coursework

Honors Undergraduate Research Seminar (CSC200H), Principles of Web Applications (CSC210), Data Mining & Analysis (CSC240), Artificial Intelligence (CSC242), Machine Learning (CSC446), Computer Systems and Organization (CSC252), Programming Language Design and Implementation (CSC254), Automata and Formal Systems (CSC173), Computability Theory (CSC280), Design and Analysis of Efficient Algorithms (CSC282)

Select Papers

· A Machine Learning-based Approach to Autism Spectrum Disorder Detection from Semi-Structured and Unstructured Medical Data (in submission)
· A Refutation of the Clique-Based P=NP Proofs of LaPlante and Tamta-Pande-Dhami (Arxiv: 1504.06890)
· Comparative Analysis of Classic Garbage-Collection Algorithms for a Lisp-like Language (Arxiv: 1505.00017)

HONORS

Dean's Scholarship *University of Rochester*

· Awarded Deans Scholarship for past leadership and academic achievements at U of R

JPM Chase Code for Good *JPM Chase*

· Ranked at JPM Chase Code for Good. Developed a meteor.js application to assist volunteers in collecting and visualizing signatures at events and advertising.

DandyHacks 2016 *University of Rochester*

· Ranked first in data science and machine learning category at U Rochester's DandyHacks hackathon for PhilosoTrump Twitter bot. Generated tweets using an implementation of the MCMC algorithm on data collected from Trump's Twitter and Reddit's /r/philosophy subreddit.