William R. Howard Matchen

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Education

- Carnegie Mellon University Class of 2017
 - Bachelor of Science in Physics Computational Track
 - Minor in Computer Science

Coursework

- Carnegie Mellon University
 - Natural Language Processing
 - Probability Theory and Random Processes
 - Parallel and Sequential Data Structures and Algorithms
 - Matrices and Linear Transformations
 - Numerical Methods

- Advanced Computational Physics
- Advanced Quantum Physics
- Graph Theory
- Great Theoretical Ideas in Computer Science
- Nuclear and Particle Physics

Coursera

Machine Learning by Andrew Ng - Implemented Neural Networks, SVM's, PCA, Anomaly Detection and Recommender Systems.

Gained knowledge of Octave/MATLAB languages.

Skills

- Programming Languages: Proficient in Python; Some experience in C/Javascript/HTML/CSS
- Familiar with Git, Unix environment.
- Conversational in Spanish

Work Experience

Software Engineering Intern for CMU Institute for Software Research
 Summer 2016

- Worked on Usable Privacy Policy Project
- Built regular expressions in Python to segment policy texts for annotation
- Maintained corpus of thousands of policy files
- Software Consultant for Disney Research

Summer 2015

- Developed Python scripts to parse email databases for emoticon usage.
- Analyzed social interactions in corporate hierarchy. Work was mostly self-taught.
- Learned to work with large datasets and multiple software libraries.

Activities

- Carnegie Mellon University
 - Chabad In-House Coordinator, Secretary

Fall 2014 - Present

- Meet weekly with local family to plan, prepare, and serve meals to groups of over forty people.
- Board Member of Jewish Students Association

2014

• Musical Director / Recruitment Chair of C#, an a cappella

Fall 2013 - Fall 2014 Fall 2013 - Present

- Volunteer for 1000Plus
 - Twice-annual event that engages Carnegie Mellon students in over one thousand person-hours of assisting local groups in need.
- Alpha Epsilon Pi Fraternity Alpha Kappa Chapter

Honors

Thomas J. Watson Memorial Scholarship Recipient

2013 - 2017