

ECHO WANG

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA

GPA: 3.9

B.S. in Computer Science • Expected May 2020

- **Honors:** Dean's List, School of Computer Science: Fall 2016, Spring 2017
- **Relevant Coursework:** Mathematical Foundations of Computer Science, Principles of Imperative Computation, Functional Programming, Probability Theory and Random Processes, Parallel and Sequential Data Structures and Algorithms, Great Ideas in Theoretical Computer Science

John P. Stevens High School, Edison, NJ

GPA: 4.01

- **Honors:** National Merit Scholar (2015), National AP Scholar (2016), Presidential Scholar Candidate (2015), Science Olympiad First Place State Medalist in Disease Detectives (2015)

SKILLS

Python, C, SML, HTML5/CSS3, C++, LaTeX, Adobe Photoshop, Adobe Illustrator

PROJECTS

Snowy Slopes

Fundamentals of Programming Term Project, Fall 2016

- Designed and implemented a side-scroller sledding game, complete with a custom 2D physics engine, using Pygame, Python, and Photoshop.

Fun with Words

Hack 112, Carnegie Mellon University, Fall 2016

- Created a learning app aimed at helping kids with dyslexia practice reading and writing; implemented three mini-games using Python with OpenCV and Tkinter.
- Winner of Best Open CV Hack.

Personal Website

- Learned HTML, CSS, and jQuery to develop a personal website, including photography portfolio pages built from scratch.

Financial Charting and Analysis

- Analyzed data gathered from the Google Finance API using Python and libraries such as pandas and matplotlib; backtested simple algorithms following basic trends and technical indicators as an introduction to algorithmic trading.

EXPERIENCE

Research Intern

The Feinstein Institute for Medical Research, Manhasset, New York, Summer 2014 & 2015

- Researched sepsis, one of the leading causes of death in the intensive care unit. Studied the immune-modulating properties of a sweat gland-derived protein, dermcidin; co-authored paper published in peer-reviewed journal, *Shock*.

Tutor

Top 1 Education, NJ, 2015

- Worked one-on-one with high school seniors in subjects like SAT math and SAT II physics.