

Andrew Wang

Cornell University Tanner Dean's Scholar

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GitHub: github.com/qema

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Objective:

Seeking a summer software engineering internship. I'm excited to collaborate on an impactful project while exploring real-world artificial intelligence and data science.

Education:

Cornell University 2015-2019

Campolindo High School 2011-2015

Relevant coursework:

Data Structures and Functional Programming — CS 3110 (current)

Discrete Structures — CS 2800 (current)

Theoretical Linear Algebra and Calculus — MATH 2230 (current)

Probability and Statistics for Computer Scientists — Stanford CS 109

AP Computer Science — Johns Hopkins CTY

Artificial Intelligence — Stanford EPGY

Computing and Programming Experience (CAPE) — All-expenses paid computer science program run by Google

Languages:

Java, Python, Swift, Objective-C, OCaml

Work experience:

Summer 2014: Computational Chemistry Intern — Anacor Pharmaceuticals

Processed 10,000 chemical structures and their reaction products to sugar molecules using SMILES strings and Python scripting. Predicted their binding affinities to sugar molecules with computational modeling methods.

2010-2015: Sunday School Pianist — First Church of Christ, Scientist, Orinda CA

Led the Sunday school in singing hymns.

Activities and honors:

OpenSourceCornell

Cornell Association of Computer Science Undergraduates

College of Arts and Sciences: Tanner Dean's Scholar

NMSC National Merit Scholar

USA Computing Olympiad Silver Division

Head Programmer, Campo Robotics Club

President, Campo Computer Science Club

California MTAC Piano Panel Finalist (top 80 in state)

Sample of my personal projects.



The Land of Stuff online role-playing game. Players interact with each other, complete custom-script-powered quests and battle legendary creatures while adventuring in a large multiplayer-friendly world.

Client-server architecture; multithreading; FreeBASIC and Winsock.

Author is a general-purpose text classifier: it can predict who wrote a given work, given a sampling of various authors' writing. Makes use of cool probability tools (especially Bayes' theorem!)

Made with Python.

```
Probability model for london: [('the', 0.059), ('and', 0.041), ('of',
Probability model for shakespeare: [('the', 0.036), ('and', 0.029),

Finished learning model for categories: ['london', 'shakespeare']
--
Prediction model ready.
Enter name of file to be classified: test/london.txt

*** Predicted category: london ***
```



Berry Hop is my upcoming iPhone adventure game. Combines exciting platformer gameplay with the depth of story, puzzle-solving and deep decision making elements common to role-playing games.

Custom, extensive world designer and entity scripting system for rich gameplay. Written in Swift for iOS and Mac.

Sound Transfer is a system to send messages between two computers, using a speaker and microphone. The transmitter translates the message into a musical melody. The receiver detects the pitches through Fourier transforms and decodes the message.

Processing and Minim audio library.

