Nicholas Jiang

Computer Science Major

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Education

Princeton University | Bachelor of Science and Engineering — *Sep. 2014 - Jun. 2018* | *Princeton, NJ*

- Computer Science Major, Finance Minor: Departmental GPA - 3.98, Cumulative GPA - 3.93.
- Awarded the Shapiro Prize for Academic Excellence (2016)
- Member of the Tau Beta Pi Engineering Honor Society
- Relevant coursework includes: Data Structures and Algorithms, Systems Programming, Neural Networks, Functional Programming, Computer Networks, Computer Vision, Operating Systems, Artificial Intelligence and Machine Learning, Computer Graphics, Discrete Mathematics, Microeconomic Theory, Statistics, Financial Investments, Corporate Finance.

Milton Academy | Cum Laude Society — *Sep. 2010 - Jun. 2014* | *Milton, MA*

- Awarded the Donald Cameron Duncan Prize for Mathematics, the Science Prize, and National Merit Finalist honors.
- SAT I - 2400 · SAT II - Chemistry: 800, Mathematics II: 800, Mathematics I: 800.

Experience

Stroz Friedberg | Cyber Summer Associate — *Jun. 2016 - Aug. 2016* | *Boston, MA*

- Extended proprietary code comparison software through the development of a visualization and review application comprised of over 5,000 lines of HTML and JavaScript, focused on analyzing and presenting evidence for use in intellectual property litigation cases concerning potential code theft.
- Concentrated on supporting the analysis of million-line-codebase comparisons as well as streamlining the user interaction with that comparison data.

Princeton University | Computer Science Lab TA — *Jan. 2016 - Present* | *Princeton, NJ*

- Hosting weekly lab TA hours for students in the Introduction to Computer Science (Java), Data Structures and Algorithms (Java), and Systems Programming (C & x86-64 Assembly) classes.

CIeNET Technologies | Android Developer - Summer Intern — *Jun. 2015 - Aug. 2015* | *Santa Clara, CA*

- Developed Android applications in Java using Android Studio while employing their in-development mobile communications package to test the ease of integration and extent of functionality from an amateur developer's perspective.
- Provided feedback on streamlining the API and incorporating new features that lead to product changes in subsequent updates.

Projects

Papyr | Audience Favorite — *Apr. 2017* | *HackPrinceton Spring 2017*

- Developed a Python application that uses a standard webcam and a single sheet of paper to create an affordable and easy-to-use trackpad, without the need for touch sensors.
- Designed and implemented original algorithms to detect finger movement and clicking built upon OpenCV image transformations.

SketchIt | 2nd Overall, Most Technically Challenging, Best Use of Microsoft Technology — *Nov. 2016* | *HackPrinceton Fall 2016*

- Created an application in Python that allows users to search for pictures by simply sketching the desired image content.
- Implemented the core engine that scores sketch-to-picture matchings based on edge and pixel level data.

Pic2Paint — *May 2016* | *COS 426: Computer Graphics*

- Developed a web application in JavaScript that renders pictures in a variety of painted styles defined by 14 different parameters.
- Implemented an animation generator enabling the user to see the process of painting the digital canvas in multiple layers of strokes.

Kweri — *Mar. 2016 - May 2016* | *COS 333: Adv. Programming Techniques*

- Worked in a team of five to develop a Meteor web application focused on providing streamlined communication between students and professors in the classroom.
- Focused primarily on the app logic and database design in JavaScript using the MongoDB API provided by Meteor and personally implemented much of the reactive UI and communication between database and application in JavaScript, HTML, and CSS using Spacebars and Blaze, Meteor's templating language and front-end rendering system.

Free-Space | Best Internet of Things Hack — *May. 2016* | *HackPrinceton Spring 2016*

- Built a Meteor web application in a group of three, using modular sensors to deliver real-time information about the availability of study carrels, music practice rooms, and more around campus.
- Implemented the database structure, underlying logic, and web layout in JavaScript, HTML, and CSS using Meteor to provide the application with a responsive feel in conveying real-time data gathered from Electric Imp sensors.

Skills

Programming Python, Java, C, C#, JavaScript, HTML, CSS, OCaml, Bash, x84-64 Assembly, MATLAB, LaTeX

Technologies Git, TensorFlow, Azure, Meteor, Bootstrap, Heroku, Android