

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

Microsoft | SOFTWARE ENGINEERING INTERN - ARTIFICIAL INTELLIGENCE AND RESEARCH DIVISION

Jun. 2017 - Aug. 2017 | Bellevue, WA

- Designed and implemented a predictive model for cloud services to forecast future load based on historical data.
- Developed Poseidon, a service-agnostic autoscaler that utilizes the predictive model and real-time data to preemptively scale cloud resources in order to efficiently handle varying traffic loads.

Stroz Friedberg | CYBER SUMMER ASSOCIATE

Jun. 2016 - Aug. 2016 | Boston, MA

- Extended 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 and streamlining user interaction with the 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.

CleNET Technologies | ANDROID DEVELOPMENT 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 with two other hackers, using 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 a Python application in a group of three allowing 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 group of five to create a web application that provides streamlined student-professor communication in the classroom.
- Focused on the core app logic and database design and personally implemented much of the reactive UI in JavaScript, HTML, and CSS.

Free-Space | BEST INTERNET OF THINGS HACK

May. 2016 | HackPrinceton Spring 2016

- Built a web application in a team of three, using modular sensors to deliver real-time info about the availability of study carrels 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#, SQL, JavaScript, HTML, CSS, OCaml, x84-64 Assembly, MATLAB

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