

# Nicholas Ng

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Computer Science Major seeking to gain work experience in the application development, data analysis and/or information technology fields. I am also passionate about Computer Science education and ways that Computer Science can benefit the public.

## Education

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**University of California, Berkeley -- Overall GPA 3.7 / Major GPA 4.0**

Computer Science/Data Science B.A.

Expected Graduation May 2022

**Relevant Coursework:** Data Structures and Algorithms, Structure and Interpretation of Computer Programs, Designing Information Devices and Systems, Foundations of Data Science, Linear algebra

## Experience

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**CS Scholars tutor for CS61A: Structure and Interpretation of Computer Programs**

10/2019 - Present

- Taught Python, SQL, and Scheme for 4 hours each week with students from under-resourced and low opportunity communities
- Created lesson plans and materials to supplement lecture content

**Mentor for CS88: Computational Structures in Data Science**

09/2019 - Present

- Mentor a small group of 4-6 CS88 students weekly in Python and SQL
- Prepare lesson plans and worksheets for weekly meetings. Meet with students one on one during weekly office hours.

**International House, Food Service Worker**

06/2019 – 10/2019

- Employed at International House as a dining hall employee. Duties included serving customers, washing dishes, restocking and helping set up in the morning and close at the end of the day.

## Projects

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**Econscious:** Encourage drivers to drive more energy efficiently

- Used SmartDeviceLink API to dynamically obtain and display information on a user's vehicle infotainment system.
- App provides the driver with recommendations on how to drive more energy efficiently. For example, one feature analyzes driving habits and provides feedback on whether the driver is braking or accelerating too aggressively.

**Twitter Stats bot**

- Obtained statistical information about a user on Youtube and analyzed the data to produce visualizations
- Created a Twitter bot to display these visualizations

**Gitlet:** lite version of Git

- Created version control system based on Git
- Supported core features of Git, including but not limited to add, rm, commit, checkout, log, branch, and merge

## Awards

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**Boy Scouts of America, Eagle Scout**

2010 - 2017

- Achieved the rank of Eagle Scout. Led and organized different projects for the community including repainting handicap lanes and setting up and reorganizing emergency preparedness rooms at a local elementary school.
- Served as assistant patrol leader, patrol leader, and webmaster. Was in charge of troop website and organization.

**National Merit Scholar 2017**

## Skills

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**Languages:** (Proficient): Java, Python, (Familiar): SQL, JavaScript, CSS, HTML

**Frameworks and Technologies:** IntelliJ, Android Studio, Git, Twitter API, Youtube API, Heroku, SmartDeviceLink