

# Nolan McCafferty

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## Education

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**Pomona College** | Claremont, CA

B.A., Double Major: Computer Science and Mathematics

Class of 2020

GPA: 3.63/4.00; ACT: 35/36

- Coursework: Software Architecture, Data Structures, Machine Learning, Operations Research, Computational Statistics, Linear Models, and Combinatorics.

## Skills & Honors

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### Languages:

- (Proficient) Python, R, Java
- (Familiar) PHP, SQL, JavaScript, MATLAB, HTML, CSS

### Honors:

- Pomona College Scholar
  - Spring 2017 and Fall 2017

## Selected Experiences

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**Research Assistant** | Pomona College

Spring 2018 – Present

- Undergoing research with an economics professor at Pomona with the goal of using machine learning techniques to improve job classification
- Scraped text data on job postings from Indeed.com
- Implemented machine learning algorithms including Doc2Vec and Latent Dirichlet Allocation
- Acquired data from Burning Glass Technologies on hundreds of millions of job postings and scaled models for big data
- Adapted topic modeling algorithms to run on GPUs using CUDA framework for speedup

**Shortstop** | Pomona-Pitzer Baseball Team

Fall 2016 – Present

- SCIAC All-Academic Team (2017 and 2018)
- 2018 Third Team ABCA NCAA Division III All-West Region Honors
- Able to work well in a team situation
- Tremendous work ethic and organizational skills

**Tutor** | Acalynics

Spring 2017 – Present

- Taught calculus and physics to high school students via Skype
- Able to communicate effectively to an audience that has minimal knowledge of a subject

## Clubs & Projects

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**Pomona College Sports Analytics Club** | Meets weekly to discuss datasets from various sports

**Planetarium Volunteer** | Coding with Sky-Skan software to create planetarium shows

**Pomona Scholars of Math** | Cohort of math and other STEM fields that meets biweekly

**5C Hackathon** | Created Track-Your-Drink app for counting drinks on a college night out