# Elizabeth Johnson

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## EDUCATION

**Pomona College**, Claremont, CA                                                    Expected May 2024
B.A. Computer Science (3.94/4.00 GPA)
- Pomona College Scholar – top 25% of class (Spring '22, Fall '21, Fall '20)

**Relevant Coursework**
- Computer Systems, Managing Complex Systems, Data Structures and Algorithms, Linear Algebra, Data Science, Statistics, Discrete Math, Functional Programming

## EXPERIENCE

**Software Developer**                                                              August 2022 – Present
Software Development Group, Associated Students of Pomona College (ASPC)
- Use Ruby on Rails to maintain ASPC website providing course & professor reviews, dining & housing information, online voting system to 5000+ students at the Claremont Colleges
- Contribute to team with 3 web developers, product manager, ASPC Senate & staff, on-campus clubs & organizations

**Research Assistant**                                                              May 2022 – Present
Autonomous Robotics and Complex Systems (ARCS) Lab, Pomona College
- Create high-fidelity environments in Unreal Engine for generating image data and to build image classification models
- Implemented set of custom commands to change lighting and material conditions during simulation

**Discrete Math and Functional Programming Teaching Assistant**                      January – May 2022
Pomona College Computer Science Department
- Hosted biweekly mentor sessions to 38 students for help in math/computing concepts, graded problem sets

**Katie Porter for Congress**, Field Organizer Intern                                March – Nov 2020
- Trained 200+ volunteers on phone bank software to make calls aimed at collecting voter data on policy positions, support of Rep. Porter, and increase voter turnout

## PROJECTS

**Sagehen Sprint** (https://tinyurl.com/sagehensprint)                              September 2021 – Present
- Used JavaScript, CSS, HTML to create an online web game of Pomona College's mascot, Cecil the Sagehen
- Implemented voice classifier with Teachable Machine to allow user to control game using voice commands, used Procreate to create original game graphics such as character animation and background

**Will Smith v. Chris Rock: Tweets from the 2022 Oscars**                            April – May 2022
- Conducted a sentiment analysis of four relevant Twitter topics using Twitter API, Natural Language Toolkit, Plotly, NumPy, and Pandas

**Identifying Intrinsically Disordered Proteins from Primary Sequences**             January – May 2022
(https://tinyurl.com/p-rotein)
- Utilized Scikit-learn, NumPy, and Pandas to evaluate the performance of several deep learning architectures in classifying protein structure with 4 Claremont College students

## SKILLS

Programming Languages: Proficient in Python, Java, HTML, CSS; Experience in JavaScript, C/C++, R
Frameworks and Tools: Visual Studio Code, Git/ GitHub, Remote Development, Ruby on Rails, Unreal Engine, Eclipse, RStudio, Jupyter Notebook

## EXTRACURRICULARS

**Clubs**
- Project Member at P-ai, a Machine Learning project-based organization at the Claremont Colleges
- Art Contributor for Associated Students of Pomona College, Chan Gallery at Pomona College, Agave Review, Asian American Resource Center
- Hobbies: road cycling, outdoor painting

**US Speed Skating**
- 2018 US Olympic Trials – 14th & youngest qualifier nationally for Short Track Speed Skating
- 2020 Amateur Speed Skating Union Foundation- Winner of $2,500 Medallion Scholarship
- 2x US Junior World Team Member, 2x Age Group Record Holder – Short Track & Long Track Speed Skating