

# JASON LAM

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## EDUCATION

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**Rensselaer Polytechnic Institute** | B.S. in Computer Science

Jan 2020 – May 2022

GPA: 3.91 | Dean's Honor List

Relevant Coursework: Data Structures, Computer Organization, Intro to Algorithms, Software Principles, Programming Languages, Software Design & Documentation, Operating Systems, Database Systems

**Fordham University** | B.S. in Computer Science, GPA: 3.7, Dean's Honor List

Aug 2018 – Dec 2019

## SKILLS

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**Languages:** C++, Java, JavaScript, HTML/CSS, Python, SQL

**Tools/Frameworks:** Bootstrap, Git, Processing, React, Node, Express, MongoDB, Docker

## EXPERIENCE

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**Intro to Algorithms CS Mentor** | Rensselaer Polytechnic Institute (C++, Python)

May 2020 – Present

- Currently mentoring for Intro to Algorithms, a class dedicated to data structures and algorithms, as well as the mathematical techniques needed to understand and analyze them
- Teaching, explaining, and grading various assignments about key algorithmic concepts like algorithm running times and algorithm design techniques: greedy, divide-and-conquer, and dynamic programming
- Holding office hours for 5 hours a week and grading student's homework/exams for 2 hours a week

**Computer Lab Teacher Assistant** | Fordham University (C++)

Feb 2019 – May 2019

- Supervised a class of over 50 students learning about basic programming concepts over one semester
- Taught students about key CS concepts: arrays, vectors, pointers, function implementation, and classes

## PROJECTS

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**GO!** | Software Design & Documentation (JavaScript, Node, Express, MongoDB)

Sep 2020 – Present

- Currently developing front end and back end for GO!, a web-based application made for online discussion forums, specifically for social justice causes like Black Lives Matter and LGBTQ+
- Implementing front end with HTML/CSS/JavaScript, back end with Express/Node, storing data with MongoDB

**Poll Buddy** | Rensselaer's Center for Open Source (Docker, MongoDB, React)

Jan 2020 – May 2020

- Developed front end and back end for Poll Buddy, a completely free and compatible in-class quizzing platform
- Incorporated MongoDB and Docker containers to help store and export student and teacher data
- Developed most of front end for Poll Buddy using HTML/CSS/JavaScript and React

**Angry Birbs** | Stuyvesant High School (Java, Processing)

Feb 2017 – May 2017

- Recreated Rovio's Angry Birds using Java and Processing
- Incorporated various data structures and algorithms, (stacks for score ranking, linked lists for multiple levels)
- Implemented a physics engine with two-dimensional motion formulas and points scoring system