

# Sean D. Heffernan

San Mateo, CA 94402 | +1 (650) 437-4124 | [sean.d.heffernan@gmail.com](mailto:sean.d.heffernan@gmail.com) | [seandheffernan.github.io](https://seandheffernan.github.io)

## EDUCATION & ACTIVITIES

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**Rensselaer Polytechnic Institute, Troy, NY**

**2018 - Present (Expected Graduation Spring 2022)**

Bachelor of Science in Computer Science and Information Technology/Web Science, dual

Current GPA: 3.79

### **Relevant Completed Coursework**

- Operating Systems
  - Analyzed operating systems by designing and implementing analytical and simulation models through programming languages
- Principles of Software
  - Learned important concepts of software design, implementation, and testing, including specifications, abstractions, and design principles
- Web Systems Development and Web Science Systems Development
  - Collude.it – Programmed a Web IRC which allows for group communication as well as meeting scheduling utilizing the AMP Stack
  - Degreezy – Created a degree progress tracker and semester schedule planner for RPI students using the MEAN Stack
- Foundations of Computer Science
  - Applied discrete mathematics and proofs to calculate combinational arguments and develop formal methods of computation.
- Introduction to Algorithms
  - Solved problems modeled after real life situations utilizing different design techniques including, but not limited to, greedy, divide-and-conquer, and dynamic programming techniques.

### **Accomplishments:**

- Awarded the Rensselaer Leadership Award in 2018, 2019
- Dean's Honor List in 2019
- Member of Gamma Nu Eta and Upsilon Pi Epsilon (ITWS and Computer Science Honor Societies)

### **Extracurriculars:**

- RPI Club Water Polo Team
- Japanese Culture Association
- Committee Chair, Web Technologies Group
- Member, RPI Student Senate
- Mentor, Rensselaer Center for Open Source (RCOS)

## EXPERIENCE

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**Project Manager, Shuttle Tracker (Rensselaer Center for Open Source)**

**2019 – Present**

- A program used by students at RPI to keep track of the shuttles that run throughout campus as well as their routes and stops
- Recruit new members, teach new members about the technology behind the application
- Lead development of new features including a dark mode, smoother tracking of shuttles, and enhanced admin features
- Uses Go, Vue, TypeScript, and Postgres

**Committee Chair, Web Technologies Group**

**2020 – Present**

- Student Senate committee responsible for developing and maintaining technological solutions designed to help students
- Current projects being maintained under WTG: RPI Petitions, ShuttleTracker, RPI Student Senate Survey
- Nominated chair of the Web Technologies Group in the Summer of 2020
- Planning on leading development of revamp of RPI Student Government Website this upcoming Fall

## SKILLS

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|-------------------|--------------|--------------|
| ○ C               | ○ TypeScript | ○ Node.JS    |
| ○ C++             | ○ jQuery     | ○ Apache     |
| ○ Leadership      | ○ PHP        | ○ MySQL      |
| ○ Public Speaking | ○ Vue.js     | ○ PhpMyAdmin |
| ○ HTML5           | ○ MongoDB    | ○ Java       |
| ○ CSS3            | ○ Express.js |              |
| ○ JavaScript      | ○ AngularJS  |              |