

Sean D. Heffernan

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EDUCATION & ACTIVITIES

Rensselaer Polytechnic Institute, Troy, NY

2018 - Present (Expected Graduation Spring 2022)

- B.S. Dual Computer Science and ITWS

Current GPA: 3.73

Relevant Completed Coursework

- Web Systems Development and Web Science Systems Development
 - Collude.it – Programmed a Web IRC which allows for group communication as well as meeting scheduling through user preferences and voting, utilizing the AMP Stack
 - Degreezy – Created a degree progress tracker as well as semester schedule planner for RPI students, allowing for students to easily view progress towards degree. Written using the MEAN Stack
- Data Structures
 - Developed problem solving skills by constructing complete C++ programs which could tackle exercises shaped around real-world problems
 - Learned how to analyze the performance of algorithms and data structures, as well as design and implement our own efficient custom data structures
- Computer Organization
 - Learned C, Assembly, and concepts of Boolean algebra
 - Applied concepts of multi-cycle and pipelined data path and control to design more efficient programs
- Foundations of Computer Science
 - Applied discrete mathematics and proofs to calculate combinational arguments and develop formal methods of computation.
- Introduction to Algorithms
 - Analyzed the efficiency and runtime of different 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.

Current Coursework

- Principles of Software
- Operating Systems

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
- Web Technologies Group (Chair)

SKILLS

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

EXPERIENCE

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
- Made ETA viewing accessible through the creation of two endpoints which display ETAs
- New features implemented under leadership include a dark mode, smoother tracking of shuttles, and enhanced admin features
- Uses Go, Vue, TypeScript, and Postgres