

# Karen Mu

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## Education

### Rensselaer Polytechnic Institute

*Bachelor of Science in Cognitive Science (technical training in Computer Science)*

**Aug 2017 - May 2021**

*Troy, NY*

- GPA: 3.42/4.00

## Relevant Coursework

**Computer Science:** Data Structures, Foundations of Computer Science (Discrete Mathematics and Models of Computing), Introduction to Algorithms, Computer Organization, Rensselaer Center for Open Source, Introduction to Artificial Intelligence (Spring 2020), Cognitive Modeling (Spring 2020)

**Cognitive Science:** Introduction to Cognitive Science, Cognitive Psychology, Research Methods and Statistics 1, Cognitive Neuroscience, Introduction to Linguistics (Spring 2020)

## Technical Experience

### DevOps Software Engineering Co-op - Web/Mobile Chapter

**July 2019 - Dec 2019**

*FM Global*

*Johnston, RI*

- Conducting implementation of API (SpecFlow, C#) and UI unit tests (Jasmine, TypeScript) in Gherkin formatting, UI browser tests (Selenium, C#), UI tasks using Angular (HTML, SCSS, Bootstrap), API integration, bug fixes, and exploratory testing
- Effectively treated as a full time developer - self assigned and independently completed tasks with respect to acceptance criteria and visual mock-ups provided by UX designers
- Reduced build times from 2 hours to 40 minutes by parallelizing CI/CD and PR build pipelines which improved sprint burndown by 25%

### Software Engineering Intern - Image Processing Group

**July 2018 - Aug 2018**

*Hermes Microvision Incorporated*

*San Jose, CA*

- Developed image enhancing software involving gamma adjustment that replaced company's pre-existing code and increased AI model's performance

## Projects

### Personal Website

**Dec 2018 - Current**

<https://karenamu.github.io>

*Troy, NY*

- Designed, implemented, and hosted my own personal website through Github (currently in development)
- Currently designing a survey button where users can write suggestions on how to improve the usability and UX of the website

### Shuttle Tracker - Open Source Contributor

**Aug 2018 - Dec 2018**

*Rensselaer Center for Open Source*

*Troy, NY*

- Built scheduling product system to allow users to click on shuttle stop and display next 3-5 times shuttle will arrive in real-time
- Designed and developed a reliable, lightweight Golang parser that integrated data from a set of Excel spreadsheets into JSON files to be used in web-based and mobile application

## Skills

**Coding Languages:** C++, C, Python,  $\LaTeX$ , Go, CSS, SCSS, HTML, C#, TypeScript, Node.js

**Technologies:** MacOSX, Linux, GitHub, Git, Azure DevOps, Visual Studio, VS Code, Swagger

**Frameworks:** ASP.NET Core, SpecFlow, Selenium, Jasmine, Gherkin, Angular, Bootstrap

**Methodologies:** Agile, Scrum, 2-week sprints, User Story Pipeline