

# Madeleine Young

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Graduating Computer Science major with software engineering internship experience. Interested in user-centered, accessible, and semantic design. Proven history of communication, teamwork, and creative problem-solving.

## Experience

**Fidelity Investments**  
Merrimack, NH  
May 2019 - Aug. 2019

### ***Software Engineering Intern - Quality Assurance***

- Automated end-to-end testing of an internal trading website, allowing the same tests to be run with different inputs and tests to continue after previous test failures. *(Cypress, JavaScript, Cucumber)*

**Plymouth State University**  
Jan. 2019 - Present

### ***Computer Science Department Fellow***

- Walk-in department tutor, 4 hours/week.
- Created website for use by the PSU CS/IT Department administrator to manage database of senior projects (Spring 2019). *(HTML, Bootstrap, PHP, JavaScript, MariaDB)*
- Lab assistant and grader for Computer Hardware, 2 hours/week.

**Fidelity Investments**  
June 2018 - Dec. 2018

### ***Software Engineering Intern - Quality Assurance***

- Manual testing of algorithmic trading application for internal and external use. *(Command Line, FIX Protocol)*
- Created training documentation and presented to upper management.

**Plymouth State University**  
Jan. 2018 - Dec. 2018

### ***Tutor/Lab Assistant, Computer Science Department***

- Walk-in department tutor. *(Python, Java, C/C++, Database Management, and Algorithm Analysis)*
- Lab Assistant for Data Structures and Intermediate Programming.

**Plymouth State University**  
Jan. 2018 - Present

### ***Tutor, Math Activities Center***

- Walk-in department tutor, 3 hours/week.
- Answer questions for 13 classes, including College Algebra, Logic and Proofs, Calculus I, II, & applied, and Math for Computer Science.

**MSPCA Angell Animal Medical Center**  
Boston, MA  
March 2015 - Aug. 2017

### ***Client Liaison and Boarding Specialist***

- Communication liaison between the public and medical staff across two hospital locations and 100 veterinarians.
- Scheduled appointments, managed boarding reservations, provided guidance for owners experiencing animal-related emergencies, participated in training new team members.

## Education

**Plymouth State University**  
Plymouth, NH  
Expected Graduation: Dec. 2019

### ***BS in Computer Science Minor in Mathematics***

- GPA 3.77
- Member of Competitive Programming Team
- Independent Study in parallel software design (Spring 2019).
- Notable Coursework: Web Programming, Software Engineering, Algorithm Analysis, Database Management, Differential Equations, Linear Algebra

## Skills

- JavaScript
- jQuery
- Semantic HTML
- CSS
- Java
- Bootstrap
- PHP
- MySQL & MariaDB
- Socket.io
- Cypress
- LaTeX
- Git & GitHub
- Object-Oriented Programming
- Agile Methodology
- Written and Verbal Communication
- Presentation Skills
- Working knowledge of: Node.js, Express, TypeScript, Angular, Python, C/C++/C#, WordPress, Firebase, Chapel

## Projects

**Online Go**  
Aug. 2019 - Present

Design and implement a website to play Go with another player in real time with rule enforcement. *(HTML, CSS, JQuery, Node.js, Socket.io)*

**Photo Album Application**  
Aug. 2019 - Present

Design and implement a photo album application using object-oriented, modular design to allow for code reuse when faced with changing requirements. *(Java)*

**Dice Rolling Application**  
April 2019 - May 2019

Created a mobile application (Android) to visualize and record polyhedral dice rolls. *(Java, XML, Firebase)*