

## RELEVANT SKILLS

C++                      R  
Java                     Python  
HTML & CSS          JavaScript  
MySQL                 MATLAB  
Linux                   SolidWorks

Research  
Agile Development  
Cluster management  
Parallel & distributed  
computing

## ADDITIONAL SKILLS

Mandarin Chinese  
(professional working  
proficiency)  
Customer Service  
Public Speaking  
Boxing  
Unicycling

## EDUCATION

### St. Olaf College

Bachelor of Arts, Expected  
Graduation 2020

Majors: Computer Science &  
Political Science

Cumulative GPA: 3.7

Courses: AI, Intro to  
Engineering Design, Parallel  
Computing, Ethics in Software  
Design, Algorithms & Data  
Structures, Software Design

### Awards & Achievements:

Accepted to GHC ACM Student  
Research Competition, To  
Include is To Excel grant  
recipient, Dean's List '17 & '18,  
Buntrock Merit Scholarship

## LEARN MORE



[https://www.linkedin.com/in/  
maria-e-kloiber-88683a103](https://www.linkedin.com/in/maria-e-kloiber-88683a103)



<https://github.com/mariakloiber>

[https://mariakloiber.github.io/  
home.html](https://mariakloiber.github.io/home.html)



# M A R I A E . K L O I B E R

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## WORK EXPERIENCE

March 2018 -  
Present

### Co-Founder & Lead Instructor | CodeCamp

- Design and teach a semester-long pre-intro CS course focusing on JavaScript and basic programming logic; aimed at non-STEM majors.

Feb 2017 -  
Present

### Cluster Manager | St. Olaf College

- Manage and update the clusters, servers, networks, and file storage used by STEM departments for classes and research.
- Analyze emerging technologies to advance the research and technological interests of the CS department.

Jun 2018 - Aug  
2018

### Research Intern | University of Minnesota Big Data REU

- Evaluated computational biology algorithms that aim to identify which existing drugs can be re-purposed to treat different diseases.
- Designed algorithm simulation data, assisted with the analysis of results, and worked to parallelize the algorithms.

Jun 2017 - Aug  
2017

### Student Researcher | St. Olaf College

- Led a research project investigating protein sequence database search using the Smith Waterman algorithm on a cluster of Xeon Phi coprocessors, and gained experience in bioinformatics.
- Assisted on a research project aimed at improving high performance computing application development methodologies to facilitate app stability.

## PROJECTS

Nov 2018 - Dec  
2018

### PassCessibility

Used Hadoop WMR and C++ to create an application that generates secure passwords for those who only have motor function (for typing on a standard QWERTY keyboard) in one hand. Worked in team of 2.  
3ML

Nov 2018 - Dec  
2018

Created a Domain Specific Language that allows users to easily generate musical scores by typing out a list of note names. Worked in a team of three to construct the parser and graphics with Python.

Apr 2017 - May  
2017

### Linux Ladies Application

Developed an app in a team of four that is aimed at helping women get started in the tech industry. It contains an internship/scholarship database as well as a forum for communication between app users. Gained experience in C++ and OpenGL.

## LEADERSHIP & EXTRACURRICULARS

May 2017 -  
Present

### Co-President | Linux Ladies Organization for Diversity in Computing

- Organize professional development training, networking events, and inclusion initiatives for underrepresented minorities in tech.
- Expanded outreach to first year students and people of color.
- Coordinated anti-discrimination efforts with Title IX administrators.

Sept 2016 -  
Present

### Bass Clarinetist | St. Olaf Band