MARIA E. KLOIBER

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RELEVANT SKILLS

C++
Java
HTML & CSS
MySQL
Linux
Research
Agile Development
Cluster management
Parallel & distributed computing
R
Python
JavaScript
MATLAB
SolidWorks

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 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://github.com/mariakloiber

https://mariakloiber.github.io/home.html

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.

Nov 2017 - Dec 2017

3ML

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

- Organize professional development training, networking events, and inclusion initiatives for underrepresented minorities in tech.
- Expanded outreach to first year students and people of color.
- Designed introductory JavaScript class aimed at non-STEM majors.

Sept 2016 - Present

Bass Clarinetist | St. Olaf Band