MARIA E. KLOIBER

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RELEVANT SKILLS

C++
Java
HTML & CSS
MySQL
Linux
Research
Agile Development
Cluster Management
R
Python
JavaScript
MATLAB
SolidWorks

ADDITIONAL SKILLS

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

EDUCATION

St. Olaf College
Bachelor of Arts, Expected Graduation 2020
Majors: Computer Science & Political Science
Cumulative GPA: 3.7
Courses: Robotics, AI, Intro to Engineering Design, Human Computer Interaction, 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://github.com/mariakloiber

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

WORK EXPERIENCE

Research Intern | Brown University HCI REU
Jun 2019 - Aug 2019

- Conducted UI design research, user research, and data analysis for a set of apps that use health tracking to generate personalized behavior change suggestions to improve sleep and general health.

Co-Founder & Lead Instructor | CodeCamp
Mar 2018 - Mar 2019

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

Research Intern | University of Minnesota Big Data REU
Jun 2018 - Aug 2018

- 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.

Student Researcher | St. Olaf College
Jun 2017 - Aug 2017

- 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

Reconstructing Seen Images from Brain Activity Data
Feb 2020 - Present

Experimenting with improvements to existing algorithms that use sparse linear regression to decode original seen images from fMRI data (recorded while test subjects were viewing said images).

PassCessibility
Nov 2018 - Dec 2018

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 2017 - Dec 2017

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.

LEADERSHIP & EXTRACURRICULARS

Co-President | Linux Ladies Organization for Diversity in Computing
May 2017 - Present

- 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.

Principal Bass Clarinetist | St. Olaf Band
Sept 2016 - Present