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Ellen Graham

Education

2017-Present Bachelor of Arts, Macalester College, St. Paul, MN, 4.0.

Applied mathematics and statistics and computer science double major. Relevant Coursework:

- Statistics: Introduction to Statistical Modeling, Introduction to Data Science, Probability, Mathematical Statistics, Markov Chains and Processes
- o Computation: Object Oriented Programming, Software Design and Development, Computational Linear Algebra
- o Mathematics: Applied Multivariable Calculus III, Linear Algebra, Discrete Mathematics, Linear Mathematics II
- o Geography: Introduction to Sustainable Development, Medical Geography

2013–2017 High School Degree, Olympia High School, Olympia, WA, 4.0.

Experience

Vocational

May 2019-July 2019 Research Assistant, Macelester College, St. Paul, MN.

Worked with a professor and a small team of other students to build tools for analyzing longitudinal categorical data.

Work included:

- Researching methods and algorithms for clustering longitudinal categorical
- o Finding and using existing software for clustering longitudinal categorical
- Building visualizations to convey takeaways from analysis outcomes
- Building a Shiny app using R to streamline analysis of methods and data
- Analyzing datasets on health and sleep using our Shiny app
- Presenting work to other research teams
- Collaborating both in person and remotely with a small team

Sept. 2018-May 2019 Preceptor, Macalester College, St. Paul, MN.

Assist a professor in running the Introduction to Data Science course at Macalester College.

Work included:

- Providing coding assistance during class
- Helping to teach concepts such as working with APIs and geospatial visual-
- Holding office hours to help students with topics and projects
- Grading coursework

Sept. 2018-May 2019 Office Assistant, Macalester College, St. Paul, MN.

Performed administrative tasks for the Mathematics, Statistics, and Computer Science Department at Macalester College such as running events, proctoring tests, and designing posters among others.

June 2018–Aug. 2018 Instructor, Exploration Summer Programs, Wellesley, MA.

Worked as an instructor and camp counselor at the EXPLO at Wellesley summer program for rising 8th and 9th grade students.

Work Included:

- Teaching introductory programming to students from a wide variety of backgrounds
- Working with full time teachers to build the curriculum for my course
- Acting as a resident advisor for 20 overnight students
- Working alone or in small teams to design and run activities for students
- Performing general tasks that allow a 500 student summer camp to run
- Working approximately 70 hour weeks to ensure that students had a safe and enjoyable experience

Sept. 2017–May 2018 Student Custodian, Macalester College, St. Paul, MN.

Cleaned classrooms and dorm spaces on the Macalester College campus with small teams of other students and with professional custiodians.

Volunteering

Nov. 2015-April 2017 Robotics Outreach Volunteer, Olympia Hgih School, Olympia, WA.

Worked with community organizations to increase access and awareness of robotics programs for youth in the Olympia area.

Work included:

- Demonstrating how to build and operate robots at local museums and businesses
- Teaching children and parents about robotics programs for youth
- Organizing a small group of other volunteers

Computer skills

R/RStudio, R Shiny, Git/GitHub, Python, Flask, Java, JavaScript, React Native, SQL, Postgres, Excel, LaTeX, Markdown