

# Connor Fogarty

Resident of Ogallala, NE



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Cmanfog

<https://cmanfog.github.io>

## Skills

- Coding Python, C, C++, LaTeX, Mathematica, HTML, CSS, React Native, CoLab, R, SQL
- Tools Git, VSCode; Platforms: Linux, Mac, Raspberry, Ubuntu
- Scores St. Olaf GPA: 3.79; ACT: 33
- Soft Skills writing, fast learner, adaptable, approachable, highly analytical, high commitment, attentive to instructions, well-trained singer and percussionist




## Education

- 2020 – 2024 **Bachelor's degree - St. Olaf College;** located in Northfield, MN  
major in Math and Computer Science  
Related Coursework (math): *Differential Equations, Multivariable Calculus, Computational Geometry, Abstract Algebra, Modern Computational Mathematics, Real Analysis, Differential Equations II, Probability Theory, Combinatorics*  
Related Coursework (cs): *Hardware Design, Software Design, Ethical Issues in Software Design, Operating Systems, Analysis of Algorithms, Theory of Computation*
- 2016 – 2020 **High school diploma - Bismarck High School;** located in Bismarck, ND  
Graduated as co-valedictorian with academic honors  
Received Con Leifur award - chosen by my high school teachers for my outstanding writing and English skills



## Academic Projects

- Nov-Dec 2023 **Traffic Flow research paper**  
Worked on with two classmates, all contributing to a paper through Overleaf  
We discussed how the LWR and Burgers equations have been used to accurately model traffic flow  
Mainly focused the history and current research on each model, analyzed both their impacts and strengths as traffic models
- April-May 2023 **Sum of Powers project**  
Worked on with two classmates, all contributing using CoLaboratory  
Investigated and Verified Theorems pertaining to an equation from “On the Sums of Powers of Consecutive Integers”  
Varied certain parameters within the equation to see what patterns emerge resulting in a sequence of numbers found when plugging in values of  $k$











## Academic Projects (continued)

- Sept.-Dec. 2022  **Moodle grades ethics project**  
Worked with three other students and St. Olaf's IT department to look into how to avoid potential privacy breaches within the transfer of Moodle courses between professors  
Reviewed the literature, postulated potential solutions, created/implemented a faculty survey instrument, interviewed faculty to educate on different course transfer options, analyzed data, compiled potential solutions, wrote report of our findings  
Postulated new professors could add old professors to their course, so course materials could be transferred with only the old professor seeing student data; Was In charge of leading Think Aloud interviews with professors
- May 2021  **Chess software**  
Worked with one other student, designed virtual chess software in C++, made to work on React Native  
Was able to make a chessboard with working chess pieces with alternating turns  
Mostly focused on the logic behind each class of chess pieces
- Dec. 2020  **Slot machine software**  
Programmed alone on a rudimentary slot machine in Python  
Able to keep track of a different users' earnings, determined winnings through comparing random points on an xy-plot to a specific area on said plot

## Employment History

- July - Aug. 2022, July - Aug. 2023  **Checker at Safeway** grocery store in Ogallala, NE.  
Feb. - Mar. 2019  **Singer in National ACDA Men's Honor Choir** grocery store in Ogallala, NE.

## College Electives

- Fall 2021 - Spring 2024  **St. Olaf Chapel Choir**
- Spring 2023 - Spring 2024  **St. Olaf Handbell Choir**
- Fall 2020 - Spring 2024  **Norseman Band**, played a variety of percussion instruments - primarily mallets and auxiliary
- Spring 2021 - Spring 2024  **Percussion Ensemble**
- Spring 2022 - Spring 2024  **Spiritus Novus**, student-led choral group that sings student-composed works.
- Fall 2023 - Spring 2024  **The Bing Bongs**, a handbell quartet comprised of members from St. Olaf Handbell Choir ([Link to concert](#))
- Spring 2021 - Spring 2024  **Eta Sigma Phi**, a Latin society on campus
- Fall 2021 - Spring 2023  **Video Game Analysis Club**
- Spring 2022 - Spring 2023  **St. Olaf Chapel Ringers**, an intermediate-level handbell choir on campus
- Fall 2020 - Spring 2021  **Viking Chorus**, an all tenor-bass first-year choir on campus

## References

References for professors and former employers are available on request.