Connor Fogarty

Resident of Ogallala, NE
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https://cmanfog.github.io

Skills

Coding	Python, C, C++, LaTeX, Mathematica, HTML, CSS, React Native, CoLab, …
Tools	Git, VSCode; Platforms: Linux, Mac, Raspberry, Ubuntu
Soft Skills	writing, fast learner, adaptable, approachable, highly analytical, high commitment, attentive to instructions, well-developed singer and percussionist

Academic Projects

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

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

Sept.-Dec. 2022 **Software 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

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

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

Education

2020 – 2024 **Bachelor's degree - St. Olaf College** major in Math and Computer Science; GPA - 3.76
Related Coursework (math): *Differential Equations, Multivariable Calculus, Computational Geometry, Abstract Algebra, Modern Computational Mathematics, Real Analysis, Differential Equations II, Probability Theory [spring 2024], Combinatorics [spring 2024]*
Related Coursework (cs): *Hardware Design, Software Design, Ethical Issues in Software Design, Operating Systems, Analysis of Algorithms, Theory of Computation [spring 2023]*

2016 – 2020 **High school diploma - Bismarck High School**
Graduated as co-valedictorian with academic honors.
Received Con Leifur award - chosen by my high school teachers for my writing/English skills

Employment History

July - Aug. 2022, July - Aug. 2023 **Checker at Safeway** grocery store in Ogallala, NE.

May 2023 **Playing marimba in pit orchestra** for college production of "Firebringer"

Feb. - Mar. 2019 **Singer in National ACDA Men's Honor Choir** grocery store in Ogallala, NE.

College Electives

Fall 2021- **Chapel Choir**

Spring 2022- **Spiritus Novus**, student-led choral group that sings student-composed works.

Fall 2020- **Norseman Band**, played a variety of percussion instruments - primarily mallets and auxiliary

Spring 2021- **Percussion Ensemble**

Spring 2023- **St. Olaf Handbell Choir**

Fall 2023- **The Bing Bongs**, a handbell quartet comprised of members from St. Olaf Handbell Choir

Spring 2021- **Eta Sigma Phi**, a Latin society on campus

Fall 2021 - Spring 2023 **Video Game Analysis Club**

Spring 2022 - Spring 2023 **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

Available on Request