

ALISTAIR PATTISON

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Education

B.A., Math and Computer Science

Expected graduation: June 2024

Carleton College, Northfield, MN

- 3.98 GPA, Digital Arts and Humanities minor.
- **Honors:** Dean's List, National Merit Scholarship.
- **Advanced Coursework**

Math: real analysis, combinatorics, linear and abstract algebra, vector calculus.

CS: algorithms, cryptography, natural language processing, quantum computing.

Work Experience

Teaching Assistant

March 2021 - present

Carleton College, Northfield, MN

- Prepare and lead twice-a-week study sessions in which I review material from class, tutor students one-on-one, offer help on assignments, and facilitate small-group collaboration.
- Grade homework for up to 34 students and help address weak areas by tailoring study sessions or writing sample solutions.
- **Classes:** Algorithms (CS 252), Math Structures (MATH 236), and Calculus II (MATH 120).

"The Food Guy"

June - August 2021

Camp Widjiwagan, Ely, MN

- Managed the purchase, inventory, and distribution of food for nearly 200 youth groups embarking on multi-week wilderness trips across five states and four Canadian provinces.
- Supervised up to six employees and collaborated closely in a team of three to ensure that the needs of all outbound trail groups were met.
- Co-lead a seven-day canoeing trip with Boys Outdoor Leadership Development, a program geared towards making the outdoors more financially accessible and increasing its racial diversity.

Projects

Chirple (*information theory, NumPy, JavaScript*)

- Get made fun of while playing Wordle against a robot making provably optimal decisions.

Ole or Carl? (*machine learning, Python, scikit-learn, dlib*)

- Confirm the myth that every college has a "look" by identifying the college of Northfield's undergraduates with nearly 70 percent accuracy. Under the hood, the model uses an SVM classifier trained on vector embeddings of student ID portraits.

Six Subgraphs of Kevin Bacon (*graph theory, Python, JavaScript*)

- A web app to visualize the subgraphs induced by collaborators on shortest paths between Hollywood stars.

Other Involvement

Varsity Athlete

August 2020 - present

Cross-country, Track & Field,

- Train and race eight months out of the year for Carleton's track and cross-country teams, including travel to Oregon and California for competition.
- Three-time conference finalist at 800m; two-time second-team all-conference; four-time academic all-conference.

Languages

Advanced: Python (including nearly all popular libraries), L^AT_EX

Proficient: Mathematica, Java, HTML, CSS, Cython