ALISTAIR PATTISON

alistairpattison.com
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Education

Carleton College
Sep. 2020 - Jun. 2024 (expected)

Math and computer science double major with peripheral interest in economics and the digital arts. Relevant coursework includes real analysis, combinatorics, abstract algebra, algorithms, quantum computing, and natural language processing. Member of the Dean's List. GPA: 3.97 overall, 4.0 within majors.

St. Paul Como Park High School
Sep. 2016 - Jun. 2020

Three-sport varsity captain, chemistry TA, yearbook photographer, and recipient of National Merit Scholarship.

University of Minnesota Talented Youth Mathematics Program
Sep. 2015 - May 2020

While in high school, completed five-year progression of rigorous math courses with focus on problem solving, proof, and communicating mathematics. I studied vector calculus, linear algebra, differential equations, logic and set theory.

Work Experience

YMCA Camp Widjiwagan, Tripping Center Employee
Jun. - Aug. 2021

In a team of three, managed food and gear distribution for nearly 200 youth groups going on extended canoeing and backpacking trips across the US and in Canada. Repaired tents, explained basic nutrition to kids aged 12 to 18, and created systems to better track inventory and automate repetitive tasks.

Carleton Math Department, Grader
Spring 2021, Fall 2022

Created rubrics and graded assignments for Math Structures (Carleton's intro proof class) and Calculus II.

Bon-Apetit Carleton, Dining Hall Assistant
Fall 2020, Winter 2021

Served food, made pizzas, and cleaned in campus dining hall.

Hansen Christmas Tree Farm, Farm Hand
2018-2021

Greeted customers, planted saplings, painted, milled lumber, repaired equipment, and got *really* good at tying Christmas trees onto cars.

Pattison Lawn Care, Founder and Sole Employee
2015-2020

Created and ran neighborhood yard-work business for dozens of happy clients. A few of my more interesting projects include excavating a rain garden, digging irrigation trenches, renovating a deck, and building a patio.

Skills and Personal Interests

Coding

Recent creations include a tool to solve Sudoku (alistairpattison.com/sudoku) and a web app to visualize the shared collaboration networks of Hollywood actors (/six-degrees). I know Python, Cython, Java, JavaScript, HTML, CSS, and LaTeX.

Maps and Data Visualization

I like making maps and cool data visualizations. Some projects of mine are an interactive map of professional athletes' birthplaces (/birthplaces), a map of building heights in Manhattan (/manhattan), and a modern take on a "Data Portrait" by W.E.B. Du Bois for the 1900 world's fair (/dubois). I use Python, Tableau, and D3.

Running

Member of Carleton track and cross-country; former captain of my high school teams. Three-time Saint Paul All-Conference selection; 15th place at the 2019 Minnesota state meet (800m); 2021 MIAC conference finalist (800m).

Other Skills

Microsoft Excel, Powerpoint & Word, Adobe Lightroom, Photoshop, Illustrator, & Premiere, photography, piano.