Nathan Stouffer

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A motivated student graduating in Spring 2021 with a double major in computer science and mathematics. Hoping to join a fast-paced and exciting work environment where I can combine both my majors to develop software.

EDUCATION

Computer Science Major and Data Science Minor — *Bachelor of Science*

GRADUATING SPRING 2021

Mathematics Major — *Bachelor of Science*

GPA: 3.95

Montana State University (MSU) – Bozeman, MT

Relevant coursework: advanced algorithms, networks, software engineering, computer security, computer graphics, machine learning, computational geometry computer science theory, abstract algebra, topology, dynamical systems

EMPLOYMENT

Math Tutor — *MSU*

FALL 2018 – PRESENT

Working as a tutor in the Math Learning Center at MSU
Identifying difficult areas for students and explaining problem solving techniques
Assisting students with algebra, pre-calculus, calculus I/II, and linear algebra

Research Experiences for Undergraduates — *MSU*

SUMMER 2020

Participated in a Research Experiences for Undergraduates (REU) program
Communicated with collaborators about complex technical problems and ideas
Worked towards truncating a blockchain network's ever-growing chain

Computer Science Course Assistant — *MSU*

FALL 2019

Instructed a lab section of 24 students in an introductory computer science course
Encouraging students to think through problems and own their solution
Hosted weekly office hours
Graded lab assignments and larger programs

PROJECTS

Senior Capstone — *MSU*

FALL 2020 – PRESENT

Implementing and extending the research performed in my REU program
Working with collaborators to produce a new protocol that prunes blockchains
Building and interpreting results from a large-scale model of our solution

Emergent Behavior — *MSU*

SUMMER 2020 – PRESENT

Exploring the emergent behavior of agents acting on local rules
Building an agent-based computer simulation
Analyzing bifurcations in emergent behavior based on initial conditions
Comparing results with a partial differential equation model

Directed Reading Program — *MSU*

SPRING 2020

Independently studied a book about abstract algebra
Discussed thoughts and questions with two graduate students once per week

SKILLS

Java, Python, C++, C, OpenGL, MATLAB, LaTeX, Git

ACCOMPLISHMENTS

MSU Math Department's Outstanding Scholar Award

MSU's Achievement Scholarship

Milton F. Chauner Mathematics Excellence Scholarship

Mary C. Griffin Scholarship

President's List (MSU): S18, F18, F19, S20, F20

Dean's List (MSU): F17, S19

1st place team at MSU's 2019 programming contest

2nd place team at MSU's 2018 programming contest

Ran a marathon

Voted "Most Influential (2018–2019)" by MSU's National Residence Hall Honorary

ADDITIONAL EMPLOYMENT

Resident Assistant — MSU
Construction Laborer — ID

INTERESTS

skiing (downhill/xc)
ultimate frisbee
running
cribbage