William Zahary Henderson

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EDUCATION

McGill University   **Class of 2024**
Bachelor of Science in Mathematics and Computer Science   *Montreal, Quebec*
- CS Courses: Data Structures and Algorithms, Software Systems, Computer Systems, Intro to CS (OOP)
- Math Courses: Linear Algebra (1 and 2), Group and Ring Theory, Real Analysis 1, Calculus 3

EXPERIENCE

Amazon   **May 2022 – August 2022**
Software Development Engineer Intern   *Vancouver, British Columbia*
- Joining Amazon Vancouver as a summer software intern in 2022

University of Alberta   **July 2021 – Present**
Computer Science Research Intern (Biostatistics, NLP)   *Edmonton, Alberta*
- Preprocessed and analyzed fMRI data in Python and MATLAB to find correlations between Autism Spectrum Disorder and brain activity regions in response to visual stimuli
- Created an interactive, video-embedded survey website using JavaScript and HTML/CSS
- Obtained ∼**10,000** language data points from respondents, and organized this data using natural language processing methods

McGill Computer Science Undergraduate Society (CSUS)   **September 2021 – Present**
First Year Council President   *Montreal, Quebec*
- Manage the First Year Council of the CSUS, a group of six students in the classes of 2024 and 2025
- Coordinate social and academic events aimed at underclassmen, focused on equity, community, and accessibility in Computer Science

University of Alberta   **July 2020 – August 2020**
Computer Science Research Intern (Game Theory)   *Edmonton, Alberta*
- Applied graph theory and reinforcement learning techniques on a team to create four unique artificial intelligence agents in Python and JavaScript to solve the abstract strategy board game Geodesic Y
- Wrote a Python script that automatically runs hundreds of game simulations, collected and analyzed data to evaluate the effectiveness of different artificial intelligence techniques

PROJECTS

Redacted | *Python, React, Redux, TypeScript, HTML/CSS*   **Current**
- Redacted

Personal Website, willzahary.com | *React, Sass*   **January 2022**
- Personal website made using React and Sass

Will Stats, www.willstats.com | *R, Python, Excel, Adobe Illustrator*   **August 2020**
- Statistics blog on which I showcase the visualizations and infographics I create

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, C/C++, R, MATLAB, Bash, LaTeX
Web Development: HTML, CSS, React, Redux, GraphQL
Technologies: Linux, Git, Excel/Sheets, Tableau, Adobe Creative Suite

AWARDS / ACCOMPLISHMENTS

Dr. Richard and Carolina J. Walls Scholarship
Harry D. Ainlay Most Outstanding Male Student
Dr. E.A. Mitchner International Baccalaureate Award – IB score of 41/45, highest at my school
1580 SAT Score – 99th percentile
98% High School Average – ranked 3/935 in my class

INTERESTS

Data visualization, group theory, statistics, urban planning, graphic design, algorithms, geography