

Erin Manson

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Skills

- Languages: Python, SQL, C/C++, Java, R, VBA, MATLAB, ARM, Racket
- Development: Unix based development and shell scripting, GitHub, Eclipse IDE, IntelliJ IDEA, VS Code, R Studio, Dr. Racket
- Concepts: AI, Cloud Computing, Data Structures, Algorithm Design, AC/DC Circuitry

Education

Wilfrid Laurier University, Honours Bachelor of Science, Waterloo, ON 2021 - Present
Major: Computer Science
Minor: Mathematics

Professional Experience

Actuarial Analyst Co-op September 2023 – December 2023

Sun Life | Python, SQL, MS Excel, VBA, Agile Project Management

- Developed a calculator in VBA to assess the risk of high reserve insurance products
- Offered advice to teams looking to convert outdated actuarial tools into Python programs
- Created algorithms to analyze data and investigate why insurance policies become underfunded

Children's Program Instructor April 2022 – Present

YMCA of Three Rivers | Teamwork, Leadership, Program Planning

- Supervise pre-school age educational programs (age 3-5)
- Coach soccer and basketball programs (age 6-12)
- Work as a member of a team to maintain the safety of children
- Ensure an inclusive environment for YMCA members of all ages

Soccer Referee April 2017 – Present

Ontario Soccer | Decision Making, Time Management, Conflict Resolution

- Referee and Assistant Referee youth and adult soccer games
- Make accurate decisions quickly and confidently
- Resolve conflicts to ensure games run smoothly

Projects

Research2SlidesWebApp | AI, Java, HTML, Maven May 2023 – August 2023

- Developed end to end a product that converts research-based PDFs to summarized slide shows ready for presentation using AI.
- The program strips the text from previously unreadable PDFs, summarizes using Cohere Natural Language Processing AI model, and populates a PowerPoint using Apache POI and Java.

- As a team of five developers, we completed this project for course credit and presented our work to the class in CP317 (Software Engineering at Wilfrid Laurier University).

Activities and Interests

- Academic interests: AI, hardware design, and quantum software development
- Currently completing “The Odin Project” Web Development Foundations course in my free time
- Member, Laurier Women in Computer Science Club
- Member, Laurier Computing Society
- Participant, Competitive Intramural Co-ed Soccer at Laurier
- Former competitive soccer player
- Former track and field and cross-country athlete

Volunteer Experience

- Youth Soccer Coach: Coached youth soccer teams during the summer for several years
- Highschool Math and Science Tutor: Tutored grades 9-12 in science disciplines as well as mathematics

Awards and Achievements

- YMCA of Three Rivers employee scholarship recipient, December 2023
- Laurier entry scholarship recipient
- Scored in the top 25% of the Canadian Senior Math contest
- Graduated high school in 2021 with honours and maintained a 95% average in my grade 12 year
- Provincial DECA competitor in both finance and marketing categories
- Received a Specialist High Skills major in Business, as well as a business studies certificate upon graduation of high school
- Honour roll student for all semesters of high school