

NATHAN PROBERT

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Education

University of Guelph

Guelph, Ontario

Bachelor of Computing, Honours Computer Science, Business Economics Minor

September 2022 – May 2027

- Current GPA: 4.0/4.0 (91.2% cumulative average)
- Received \$3,000 entrance scholarship

Technical Skills

Languages

Python, Java, C, HTML,
CSS, JavaScript, Kotlin

Frameworks and Libraries

Tensorflow, NumPy, pandas, FFmpeg

Developer Tools

Git, Visual Studio, Android Studio

Work Experience

Markham District Baseball Association

Markham, Ontario

Umpire

June 2017 – Present

- Responsible for officiating games to provide a fair and safe environment for participants
- Communicate effectively with players and coaches, often in dynamic and high-stress situations

Umpire Mentor

June 2022 – Present

- Provide newer umpires with leadership and support to help them become more confident umpires
- Oversee and provide guidance to junior level umpires, while evaluating their performance
- Collaborate with the Umpire in Chief to assign umpires to games based on my evaluations of their skills

Ontario Minor Hockey Association

Markham, Ontario

Referee

October 2018 – Present

- Officiate hockey games and communicate with coaches to ensure games run smoothly
- Work as a team with other referees to make critical, time-sensitive decisions while under pressure
- Gain the respect of participants by displaying a confident and professional demeanour

Volunteer Experience

York Region District School Board

Markham, Ontario

Tutor, Legacy Public School

January 2020 – March 2020

- Tutor the fundamentals of mathematics to young students at my previous elementary school
- Adapt to each unique student to provide instruction tailored to their individual learning styles

Student Athletic Association Treasurer, Markham District High School

September 2020 – June 2022

- Maintain a detailed budget for the organization, track and analyze actual revenues and expenses
- Train and mentor future treasurer to ensure a smooth and seamless transition

Projects

Hockey Challenge Picker | Python, Tensorflow, pandas, NumPy

🌐 [tims-picker](#)

- Provides the statistically best choice for which players will score a goal in the Tim Hortons NHL Hockey Challenge
- Pulls data from existing websites to obtain a list of possible player choices each day
- Gathers and records statistics with pandas and NumPy to train the machine learning model with up to date information
- Uses Python's Tensorflow library to build an AI model that predicts goal scorers using multiple unique statistics
- Uses this information to predict who will score a goal, current accuracy of 34% (current global leader 33%)

Wordle Solving Bot | Java

🌐 [wordle-solver](#)

- Analyzes a dictionary of possible words to generate the statistically best guess for the popular word game Wordle
- Dissects each word by letter and formulates guesses that eliminate as many alternate words as possible
- Compares these possible guesses and selects the word with the highest relative popularity
- Correctly solves the Wordle in an average of 3/6 guesses

Multipurpose Discord Music Bot | Python, FFmpeg

🌐 [discord-music-bot](#)

- A Discord bot that plays music in voice channels through integration of FFmpeg
- Supports importing of Spotify playlists by utilizing Spotify's API
- Allows full control of all music functions through easy to understand and use discord commands
- Includes features such as tic-tac-toe against other users, as well as the bot itself, with decision-making powered by AI