Nathan Skibicki

Toronto, Ontario

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Education

Western University   **Sep. 2021 – May 2025**
Bachelor of Science in Computer Science, Computer Science Specialization   *London, Ontario*

Projects

NFL Salary Predictor | *Python, Pandas, NumPy, Matplotlib, Scikit-learn*   **January 2023**
- Built a multi-layer linear regression model that predicts an NFL player's salary based on performance.
- Developed and implemented a polynomial regression model to address significant discrepancies in salary ranges.
- Collected, concatenated, and found correlations between data frames to create usable data for the prediction model using Pandas and NumPy, and developed model prototypes using Scikit-learn.

Pac Man Game | *Java*   **January 2023**
- Designed and implemented an undirected graph-based application for a Pac Man game using Java, with classes for Node, Edge, Graph, and MyMap, utilizing an adjacency matrix representation to store and manage nodes and edges.
- Successfully implemented a modified DFS traversal algorithm in Java to allow Pac-Man to find and navigate any path from his starting point to the desired destination chosen by the player.

Western University Map Application | *Java, Java Swing*   **January 2023**
- Developed a user-friendly university map application using Java Swing and JSON for saving user points of interest.
- Developed functionality to store user data and login info upon application closure utilizing JSON files.
- Developed user friendly GUI using Java Swing that simplifies user navigation and interaction with the map application
- Contributed to the successful delivery of the map application by collaborating with a team of 5 using scrum methodology to streamline project management and ensure timely delivery.

Wordle Game | *Java*   **October 2022**
- Developed Java-based game that prompts users to guess a randomly generated word and provides feedback on the accuracy of their guess.
- Wrote adaptable code the permits the use of UTF-16 characters to create words of varying lengths randomly.

Leadership / Extracurricular

Western AI   **August 2022 – March 2023**
Project Manager   *Western University*
- Built and managed a team of 3 developers in the development of an NFL Salary Predictor
- Ensured the precision and reliability of data collected to support the development of the machine learning model.

Aquatics Program Assistant   **Sept 2019 – March 2021**
Aquatics Program Assistant   *Toronto Parks and Recreation*
- Assisted and evaluated students on their swimming ability

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, R
Developer Tools: VS Code, Eclipse, Amazon Web Services, Netbeans, Android Studio, Adobe Experience Manager, Java Swift, Sourcetree, Git
Frameworks and Libraries: React, Linux, Unix, NumPy, Matplotlib, Pandas, spaCy, Scikit-learn, GitHub, Bitbucket, Confluence, JUnit

Interests

Machine Learning
Web Development
Adobe Experience Manager