

# NATHAN SKIBICKI

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## Education

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### Western University

Sep. 2021 – May 2025

*Bachelor of Science in Computer Science, Computer Science Specialization*

*Toronto, Ontario*

## Projects

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### 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 that permits the use of UTF-16 characters to create words of varying lengths randomly.

## Leadership / Extracurricular

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### 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

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**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

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Machine Learning

Web Development

Adobe Experience Manager