

# NATHAN SKIBICKI

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🌐 [Linkedin](#)

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## Education

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### Western University

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

Sep. 2021 – May 2025

*London, 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.

### Affinity Dating App | *Javascript, React.js, Node.js, MongoDB, Express.js, Axios, Postman*

July 2023

- Developed a dating app using the MERN stack to build a Tinder-like dating platform.
- Implemented robust node.js backend to handle user management using Express.js and MongoDB.
- Employed Axios to perform asynchronous requests and handle API interactions between the frontend and backend.
- Designed the frontend component using React.js to create a user-friendly and responsive interface for browsing profiles and matching with potential partners.

### 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.

### Spotify Clone Website | *Javascript, Node.js, React.js, CSS, Redux*

July 2023

- Developed a Spotify Clone using React.js for the frontend and utilizing Node.js and Redux to integrate Spotify's official Web API.
- Designed the Clone website UI by employing multiple different CSS components, in attempt to emulate Spotifys UI
- Utilized Redux with reducers to manage the application's data layers effectively.

## Leadership / Extracurricular

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### Project Manager

August 2022 – March 2023

*Western AI*

*London, Ontario*

- 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.

### Programming Instructor

June 2023 – August 2023

*Ultimate Coders*

*Markham, Ontario*

- Delivered comprehensive instruction on essential programming concepts to students.
- Adapted teaching strategies and resources according to student progress.
- Offered constructive feedback and personalized assistance to empower students in attaining their learning objectives.

## Technical Skills

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**Languages:** Python, Java, C, HTML/CSS, JavaScript, R

**Developer Tools:** VS Code, Eclipse, Amazon Web Services, Netbeans, Adobe Experience Manager, Java Swift, Sourcetree, Git

**Frameworks and Libraries:** React.js, Redux, MongoDB, Express.js, Axios, Postman, NumPy, Matplotlib, Pandas, spaCy, Node.js, Scikit-learn, GitHub, Bitbucket, Confluence, JUnit