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.

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

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

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