

Nolan Whittaker

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Technical Skills:

Languages: Java, Python, SQL, C++, HTML, CSS

Technologies: Pandas, NumPy, Spark, Node.js, SpringBoot, Microsoft SQL Server, Postgres, Angular, React

Technical Experience

Frontend Developer — Downhole Battery Inc, Calgary Oct 2024 – Dec 2024

- Developed a responsive, mobile-friendly static website using HTML and Tailwind, ensuring **consistent design and usability** across different screen sizes and browsers.
- Applied **performance optimization** techniques to ensure fast load times and seamless functionality across various devices.
- Enhanced user experience by incorporating an interactive map using **OpenStreetMap and Leaflet.js**, and a contact form to enable user inquiries.

Technical Projects

NHL Game Predictor — Python, Pandas, Seaborn, SciPy May 2025 - Aug 2025

- Performed **ETL** on 16 years of NHL data, performing grouping and aggregation to prepare it for statistical analysis and machine learning prediction.
- Predicted the 2024 NHL season with **59%** accuracy using a Random Forest Classifier and evaluated model performance across prior seasons to validate robustness
- Developed key visualizations using **Seaborn** to highlight the most important factors influencing game outcomes, including offensive metrics, defensive metrics, and goaltender performance.
- Engineered key features including team performance metrics, goaltending statistics, and situational contexts to enhance **model predictive power**.

Leetcode Assistant — HTML, CSS, Javascript, Node.js Jan 2025 - Apr 2025

- Created a **Google Chrome browser extension** to allow users to receive assistance with any Leetcode problems.
- Integrated the **OpenAI API** via an Express.js backend to provide dynamic user assistance, including data structure visualization, contextual hints, and solutions.
- Coordinated a team of three students to prototype, test, and conduct **user research** to ensure the solution aligned with target user needs and usability standards.
- Implemented **dynamic visualizations** using Mermaid.js to visually represent coding concepts and algorithm flows, enhancing user learning.

Shape Up Fitness — HTML, CSS, SpringBoot Jan 2024 - Apr 2024

- Created a **full-stack fitness tracking** web application enabling users to create, manage, and explore personalized workout plans and routines from other users.
- Utilized Spring Boot to implement backend logic following the **Model-View-Model (MVM) pattern**, enabling efficient data tracking, user input handling, and structured application flow.
- Coordinated with the client through multiple design and feedback iterations to **gather requirements**, refine user workflows, and align the application with end-user needs.
- Delivered features on time by actively participating in **agile** sprints and iterative development cycles.

BCCompSciConnect — Angular, Javascript, Node.js Jan 2024 - Apr 2024

- Developed a Reddit style web platform designed to connect like-minded individuals within the computing science community, enabling users to share insights, collaborate on projects, and explore academic and career opportunities.
- Designed and implemented user authentication through **Google Sign-In**, streamlining the onboarding

process and enhancing user convenience and security.

- Conducted multiple rounds of **user testing** and feedback collection to iterate on the design and functionality, ensuring the platform met user needs.

YelpQuery CLI Tool, — Java, SQL, JDBC

Nov 2023 – Dec 2023

- Developed a **Java command-line application** to query and modify a Yelp database, enabling efficient data retrieval and updates.
- Implemented **secure user authentication** to ensure authorized access and maintain data integrity within the application.
- Designed and optimized **SQL queries** for high performance and accurate results in managing large datasets.
- Gained practical experience with **JDBC** for database connectivity and transaction management.

Education

Simon Fraser University GPA: 3.1

Sept 2022 – Present

- Third Year in Bachelor of Science, Major in Computer Science
- Received Ken Caple College Transfer Entrance Scholarship