SEAN WOTHERSPOON

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EDUCATION

Simon Fraser University   **September 2021 – Present**
Bachelor of Science, Computing Science   *Burnaby, BC*

Relevant Coursework: Data Structures, Algorithms, Software Development Practices, Database Systems, Computer Architecture, Web Development, User Interface Design, Biomedical Computing Methods

PROJECTS

Mealpository | *Angular, Azure, Django, SQL*   **May 2024**
- Designed and implemented a user-friendly web application using **Angular** and **Django**, enabling users to upload, save, and manage recipes within their accounts
- Trained a machine learning model using **Azure Document Intelligence** for recipe text extraction and a **MS Azure SQL** Database for efficient data storage, ensuring seamless recipe management and retrieval
- Integrated **Azure** API and **SQL** prepared statements to facilitate data interaction between the application and the database, enabling robust functionalities like meal planning and recipe-based shopping lists

Type Aid | *React, Django*   **March 2024**
- Developed a web-based application using **React** and **Django** to enhance accessibility for users with motor disabilities, featuring a custom keyboard interface with grouped keys for easier navigation
- Implemented token-based authentication and multiple APIs using the **Django Rest Framework** for user customization and data management, ensuring secure user interactions
- Employed advanced NLP techniques like N-grams analysis and frequency-based word prediction algorithms to develop a machine learning model, enhancing typing efficiency and reducing keystrokes for users

Yelp Database Application | *Java, Swing, SQL*   **December 2023**
- Developed an intuitive **Java Swing** GUI for seamless Yelp data interaction, providing a fluid user experience
- Established connectivity to an **MS SQL** database using **JDBC**, enabling secure and efficient data operations
- Implemented dynamic features to enhance interactive manipulation of Yelp data, yielding an engaging experience for users

N-Puzzle Solver | *Java*   **March 2023**
- Constructed a versatile **Java** application that efficiently solves N-Puzzles of varying dimensions by dynamically adjusting to puzzle input, to achieve efficient solving times
- Implemented an adaptable solving approach dynamically selecting between variants of the A* algorithm, to solve the puzzles, guided by their respective sizes
- Utilized parent-child relationships to deliver a complete move sequence list leading to enhanced usability and user engagement with the solver

WORK EXPERIENCE

Personal Shopper   **May 2023 - Present**
Real Canadian Superstore   *Coquitlam, BC*
- Consistently achieved a rate of 130 units per hour with a 98% item fulfillment rate through meticulous attention to detail, improving the store's overall customer satisfaction
- Led a cohesive team utilizing exceptional time management skills to delegate loading duties based on the priority of orders reducing customer waiting time
- As an integral part of the loading team, I communicated politely and effectively with my team members and customers while swiftly loading orders increasing the precision of order fulfillment

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, JavaScript, HTML5, CSS3, SQL, C
Frameworks/Libraries: Angular, Swing, Django React, Angular Material, Leaflet, RxJS
Developer Tools/Technologies: MSSQL, Microsoft Azure, Maven, Make