

# ADAM SCHROFEL

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## EDUCATION

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### Honours B.Sc. in Applied Computer Science

*University of Winnipeg*

2025

Winnipeg, MB

**Relevant Coursework:** Data Structures & Algorithms, Adv. Internet Programming, Software Architecture, Machine Learning, HCI

**Languages:** Java, JavaScript, Python, SQL

**Frameworks & Tools:** React, Node.js, TypeScript, Spring Boot, Azure, PostgreSQL, MongoDB, Git

## PROJECTS

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### Scrabble Solver, Full-Stack Web Application

*Java (Spring Boot), React, Vite, REST APIs, Git*

- Built and shipped a full-stack Scrabble solver with a Spring Boot backend and React frontend.
- Implemented board-aware move generation including legality checks, adjacency rules, and blank tile handling.
- Implemented dictionary-backed word validation and full board-state solving logic.
- Released a versioned build and tracked future performance optimizations and features using GitHub Issues.

### Senior Software Project, Azure ETL Data Warehouse (Elantra)

Sep 2024-Apr 2025

*Lead System Analyst & Product Owner*

- Designed and implemented a scalable ETL pipeline using Azure Data Factory, MySQL, Databricks, and Azure SQL to support nightly ingestion from multiple university databases.
- Developed schema design, transformation logic, and queries for structured reporting and dashboards.
- Led sprint planning, requirements gathering, and coordination following Agile methodology.

### Research Project, Glanceable Interfaces Literature Review

Jan 2025 – Apr 2025

- Conducted a structured literature review of 60+ papers on glanceable interfaces, synthesizing findings across HCI and visualization research.

## EXPERIENCE

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### Floor Manager, Bartender/Server

Seasonal, 2023-Present

*The Beer Can, Winnipeg, MB*

- Managed daily operations and staff, while providing efficient service in a high-volume outdoor setting.
- Utilized POS systems (Square, Backbar) for orders and product adjustments.
- Cultivated strong relationships with local breweries and reps through frequent B2B interactions, supporting industry partnerships and collaboration.
- Supported the rapid scaling of a seasonal venue from startup phase to one of Winnipeg's busiest summer operations.

### Bartender

Nov 2021-Present

*Shark Club Sports Bar & Grill, Winnipeg, MB*

- Handled high-volume service in fast-paced team environments while maintaining quality and consistency.

## REFERENCES

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Bradley Rey PhD, Assistant Professor | University of Winnipeg | 204-786-9378 | [b.rey@uwinnipeg.ca](mailto:b.rey@uwinnipeg.ca)

Jon Dueck, Former General Manager | Shark Club Sports Bar & Grill | (204) 770-8028 | [jdueck204@gmail.com](mailto:jdueck204@gmail.com)

Mackenzie Jeffrey, General Manager | The Beer Can | (204) 558-3640 | [mackenzie@thebeercanwpg.ca](mailto:mackenzie@thebeercanwpg.ca)