

# Keegan Churchill

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## Summary

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Dynamic developer with a rich tapestry of global experiences eager to re-enter the tech industry. After taking a few years to explore and challenge myself, from teaching in South Korea and navigating the rapids of the Grand Canyon, to launching my own food business and camping through Europe, I've cultivated a profound resilience and adaptability. My diverse background and proven ability to overcome intimidating challenges make me a valuable asset to your team.

**ALL REFERENCES AVAILABLE UPON REQUEST**

## Education

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**Memorial University**, Bachelor of Science - Computer Science 2021

- **Starcraft Broodwar Bot, C++** achieved with BWAPI, made one of the most competitive bots in the class.
- **Realm of Rythl, C++** SFML, Zelda-esk Super Mario Maker Adventure Game with custom user friendly map editor.
- **Corporate Overhaul, Javascript, MongoDB** Web-based adventure game platformer.
- **Tron Bot, C++** placed 3rd out of 30+ class tournament.
- **Sudoku Solver, Javascript** achieved via genetic algorithm.
- **Connect 4 Bot, Javascript** implemented alpha beta pruning and Zobrist hashing. Placed 4th out of 30+ class tournament.
- **Pathfinding Demo, Javascript** implemented DFS, BFS, A\* searches. Grid layout, accounting for various sized objects.

**Sir Wilfrid Laurier Secondary**, OSSD 2014

- **Business Studies Certificate** Awarded by the Ottawa-Carleton District School Board
- **Robotics Certificate** Notable projects; Arduino Persistence of Vision Rotating LED Display, Arduino Autonomous Vehicle, Roulette simulator, Simple top down shooter game.

## Personal Projects

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**My Website** [🔗](#) 2025

- **Portfolio Website** ExpressJS, Typescript, Mustache, MySQL, Bootstrap.
- **CRUDdy jobs** A CRUD demo where jobs can be posted, deleted, etc. Using npm mysql2, pooling, and promises. Protected against SQL injections.
- **Scientific Calculator** simple client side calculator, using npm expr-eval.
- **Project Hub** Currently integrating improved demos of University projects.

**BlackJack Simulator** 2024

- **Simulation, C++** Tests several popular betting strategies over millions of hands to demonstrate that any betting sequence loses to the odds.

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| <b>HomeRekker</b> , Global Game Jam                                                                                                                                                                  | 2019 |
| <ul style="list-style-type: none"> <li>• <b>Game Design</b> Structure building game, protect occupants from stormy weather.</li> <li>• <b>Technology</b> C# and Unity</li> </ul>                     |      |
| <b>Mighty Electron</b> , Global Game Jam                                                                                                                                                             | 2018 |
| <ul style="list-style-type: none"> <li>• <b>Game Design</b> Path-find the circuits of a breadboard as an electron. Power all components to win.</li> <li>• <b>Technology</b> C# and Unity</li> </ul> |      |

## Work Experience (Ordered by tech relevance)

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| <b>Canadian Blood Services</b> , Junior Full Stack Developer Custom Solutions                                                                                                                                                                                                                | Ottawa, Ontario              |
| <ul style="list-style-type: none"> <li>• RESTful APIs</li> <li>• Microservices</li> <li>• Angular reactive forms, state validating, and submitting</li> <li>• PrimeNG styling</li> <li>• Frotend CSV exporting, GET data from Backend via API, organize data before user download</li> </ul> | 2019 - 2020                  |
| <b>Rise Academy</b> , English Teacher                                                                                                                                                                                                                                                        | Ansan , South Korea          |
| <ul style="list-style-type: none"> <li>• Created an Elementary Computer Science Course.</li> <li>• Built a MENACE with the kids. Physical Machine-Learning Algorithm that learns and perfects playing Tic-Tac-Toe</li> </ul>                                                                 | 2022 - 2023                  |
| <b>Sizzle &amp; Sip</b> , Owner, Founder                                                                                                                                                                                                                                                     | Holyrood , Newfoundland      |
| <ul style="list-style-type: none"> <li>• Food Establishment, with a boardwalk location</li> <li>• Serving Hotdogs as well as unique handmade whole drinks and bubble tea</li> <li>• catering, and serving events</li> </ul>                                                                  | 2024                         |
| <b>Salmonier Nature Park</b> , Wildlife Interpreter                                                                                                                                                                                                                                          | Salmonier Line, Newfoundland |
| <ul style="list-style-type: none"> <li>• Performed large group presentations</li> <li>• Private tours</li> <li>• Created wildlife educational content</li> </ul>                                                                                                                             | 2016 - 2019<br>2021 - 2022   |
| <b>Holiday Inn</b> , Porter, Server, Bartender                                                                                                                                                                                                                                               | St. John's, Newfoundland     |
| <ul style="list-style-type: none"> <li>• Set-up and clean up meetings and weddings</li> <li>• Served food</li> <li>• Open and closed bar, managed inventory and cash</li> </ul>                                                                                                              | 2016 - 2019<br>2020 - 2022   |
| <b>Bell Sensplex</b> ,Score Keeper, DJ                                                                                                                                                                                                                                                       | Ottawa, Ontario              |
| <ul style="list-style-type: none"> <li>• Recorded Game Sheets</li> <li>• Ran clock and music</li> <li>• Awarded prizes</li> </ul>                                                                                                                                                            | 2013 - 2015                  |

## Volunteer Work

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- Computer Science Society**, Intramural Sports Coordinator
- Computer Science Society**, Event Bartender
- NL Teachers on Wheels**, Free Remote English Teacher
- Ski Hawks**, Visually Impaired Snowboard Guide
- Cumberland Hockey League**, Score keeper