Keegan Churchill

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Summary

I'm a Computer Science graduate with experience in AI development, game development, and quantitative trading. Skilled in C++, Python, JavaScript, I specialize in designing efficient systems. I'm currently building a large-scale Python application for a quantitative trading firm and exploring Web GPU to extract best performance on any platform. I thrive on turning complex problems into impactful, scalable solutions.

ALL REFERENCES AVAILABLE UPON REQUEST

Work Experience

Lookfar Capital, Quantitative Researcher — Ottawa, Ontario — 2025 - Present
- Python machine learning, quantitative research. Identified significant development bias and applied solutions to the process, mitigating optimistic bias.
- Back-testing simulation system designer and developer. Exponentially sped up candidate testing and back-testing runtime, while increasing quality. Improved data visualizations. LSEG data library, Refinitiv

Canadian Blood Services, Junior Full Stack Developer Custom Solutions — Ottawa, Ontario — 2019 - 2020
- RESTful APIs, Microservices, SQL
- Angular reactive forms, state validating, PrimeNG styling

Rise Academy, English Teacher — Ansan , South Korea — 2022 - 2023
- Created an Elementary Computer Science Course.
- Built a MENACE with the kids. Machine-Learning Algorithm that perfects Tic-Tac-Toe

Sizzle & Sip, Co-Owner, Co-Founder — Holyrood , Newfoundland — 2024 - 2025
- Business operarions, Accounting, Marketing

Education

Memorial University , Bachelor of Science - Computer Science- AI & Games — 2022
- **Starcraft Broodwar Bot, C++** achieved with BWAPI, Top 3
- **Tron Bot, C++** placed 3rd out of 30+ class tournament.
- **Connect 4 Bot, Javascript** implemented alpha beta pruning and Zobrist hashing. Placed 4th out of 30+ class tournament.

Personal Projects

My Website ↗ — 2025
- **Portfolio Website** ExpressJS, Typescript, Mustache, MySQL, Bootstrap.

BlackJack Simulator — 2024
- **Monte Carlo Simulation, C++** Tests several popular betting strategies, illustrating the complex ways luck is hidden by trading strategies.

Mighty Electron, Global Game Jam — 2018
- **Game Design, C#** Path-find the circuits of a breadboard as an electron.

Volunteer Work

MUN Quant Society	Mentor and Presenter
Computer Science Society	Intramural Sports Coordinator, Event Bartender
NL Teachers on Wheels	Free Remote English Teacher
Ski Hawks	Visually Impaired Snowboard Guide