Jacob Wilkinson

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EDUCATION

Wilfrid Laurier University   Waterloo, ON
Honours Bachelor of Science in Computer Science, Minor in Mathematics   *Sept. 2022 – present*

PROJECT EXPERIENCE

Full-Stack Chat Application | *React, Node.js, Express, MongoDB, Socket.io, Cloudinary, Render, DaisyUI* June 2025
- Developed a real-time chat platform supporting instant messaging and image sharing via Socket.io and RESTful APIs
- Implemented secure user authentication with profile management, storing user profile pictures using Cloudinary.
- Designed a responsive front-end with React and customizable themes using DaisyUI.
- Deployed the application on Render, ensuring reliable production hosting and scalability.

Pokemon Battle Simulator | *React, Node.js, Express, PostgreSQL, Socket.io*   September 2025
- Built a fully functional battle simulator with a team builder that allows users to create, save, and manage Pokémon teams.
- Implemented real-time multiplayer battles and in-app messaging using Socket.io for low-latency communication.
- Developed a persistent backend with PostgreSQL and deployed a responsive React front-end for seamless user experience.
- Integrated CSS animations for attack effects, health bar transitions, and dynamic UI feedback to enhance player immersion
- Designed a responsive interface with real-time stat tracking and turn queues, simulating authentic Pokémon gameplay mechanics

ADDITIONAL EXPERIENCE

Co-Founder, President   October 2024 – Present
Laurier Korean Students' Association   *Waterloo, ON*
- Founded the Korean Students' Association, managing and growing a team of over 25 students
- Oversaw all operations, including event planning, budgeting, marketing, and member engagement, ensuring the club's continued growth and success
- Organized and executed large-scale events and cultural activities, increasing student participation and fostering a sense of community
- Developed and managed the club's annual budget, allocating resources efficiently and maintaining financial transparency
- Represented the club at university events, meetings, and conferences, advocating for student interests and promoting the club's mission

WORK EXPERIENCE

E-commerce Associate   October 2023 – Present
Pro Hockey Life   *Kitchener, ON*
- Streamlined inventory tracking processes using management systems, ensuring accurate accounts of stock
- Collaborated with e-commerce teams to optimize order fulfillment workflows, reducing processing time
- Troubleshot and resolved discrepancies between digital orders and physical inventory, ensuring seamless synchronization in e-commerce systems

TECHNICAL SKILLS

Languages: JavaScript, Python, Java, SQL(MySQL), HTML/CSS
Frameworks: React, Express.js
Developer Tools: Git, VS Code, Visual Studio, Eclipse
Libraries: TensorFlow.js, NumPy, Pandas, Scikit, Matplotlib