Alan Bui

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Education

University of Waterloo (Bachelor of Computer Science)   *Sept. 2024 – Present*
René Descartes National Scholarship Recipient   Waterloo, ON

Skills & Technologies

Languages: Python, Java, C++, HTML, CSS, JS, R, Dart
Frameworks & Tools: React.js, Node.js, Firebase, Git, NumPy, Flutter

Experience

University of Windsor   *July 2023 – Aug. 2023*
Research Assistant   Windsor, ON
- Wrote scripts in **Python** to compare the performance of embeddings from GPT and LLaMA on classification tasks using **pandas**, **NumPy**, and **sklearn**
- Co-authored a research paper published in BMC Bioinformatics to showcase the results

MasseyHacks   *Sept. 2022 – June 2024*
Co-Director (2023) | Operations Organizer (2022)   Windsor, ON
- Led a 13-person team to receive $12000 in sponsorship funding and prepare logistics for 240+ attendees
- Designed a hackenger hunt with 15 CS-related puzzles using **React** (with Next.js) and **Node** (with Express.js)

Vincent Massey Computer Science Club   *Sept. 2022 – June 2024*
Senior Stream Teacher | Contest Organizer   Windsor, ON
- Created lesson plans to teach high school students algorithms and data structures using **Python** and **C++**
- Using **React**, **Node**, and **Firebase**, created a real-time homework leaderboard to track 50+ members' progress

Windsor Chess Enrichment Program   *Sept. 2021 – Present*
Co-Founder | Web Developer   Windsor, ON
- Planned logistics for a new local chess club using **GitHub Pages** to create an online presence
- Developed chess training software using **React**, **Node**, and **Firebase** to teach 50+ chess club members

Projects

Fast-Slow Debugger   *Sept. 2022*
Hack the North   Waterloo, ON
- A useful competitive programming debugging tool that runs two programs to compare their outputs against inputs from a test set generator and presents mismatches
- Built the front-end with **HTML** and **CSS** and the back-end with **JS** and **Python**

EchoChess   *May 2022*
MasseyHacks VIII 3rd place   Windsor, ON
- A Discord bot to allow users to input a picture of a chess scoresheet and output a file for the user to be able to play through the game digitally
- Made in **Python** using Amazon Textract API and Discord API