

# Brian Wei Hao Ma

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## Experience

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**Software Consultant**, Connective Capital Management – Palo Alto, California, USA Jan 2025 – Present

- Developed custom web scrapers and data pipelines to efficiently extract filing data over the last 15 years from over 900,000 companies

**Software Developer**, Nexus Energy – Toronto, Ontario, Canada Jan 2024 – Present

- Redesigned and improved database synchronization program, eliminating all out of memory and table locking errors and yielding an average speedup of 500%
- Developed a backfill program to automatically monitor and download accordingly any data that was not captured by the old data pipelines, significantly reducing the frequency of discrepancies for the finance team
- Maintained and developed the company's entire python codebase
- Carried out IT related tasks for the company

## Personal Projects

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**MISOReports** Sept 2024 – Dec 2024

- Led the development of a comprehensive Python library that streamlines the extraction of Midcontinent Independent System Operator (MISO) public reports data
- Tools Used: Python, pytest, pandas

**URLJumper** Nov 2024 – Dec 2024

- Developed a Chrome extension to improve workflow, allowing users to map names to URLs and use the name instead of the URL to navigate the web
- Tools Used: JavaScript, HTML, CSS, Chrome Extension API

**csvcheckcli** Jun 2024 – Aug 2024

- Developed a fast command-line tool built on top of [csvcheck](#) (a Go module that I developed) to allow for quick and convenient comparisons of CSV files in the terminal
- Tools Used: Go, cobra

## Education

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**University of Toronto**, Honours Bachelor of Science (HBSc) in Computer Science Sept 2019 – June 2023

- [International Collegiate Programming Contest](#) (ICPC) competitor
- Pianist for the [Faculty of Engineering orchestra](#)

## Competitions/Awards

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- [ICPC ECNA](#) bronze medalist in 2020
- [Educational Computing Organization of Ontario](#) Algorithmic Programming Competition finalist in 2019
- [Canadian Computing Competition](#) (Senior Division) distinction in 2019
- [Euclid Mathematics Contest](#) distinction in 2019

## Skills

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**Programming Languages:** Python, Go, SQL, JavaScript, C, Java, C++, Dafny, Shell Programming

**Others/Keywords:** algorithms, OOP, pytest, pandas, scrapy, onsite-servers, virtual machines, hardware

## Languages

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English (native), Japanese (working proficiency), Mandarin (working proficiency), Cantonese (conversational)