Zi Heng (Isaac) Jiang

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SKILLS & TECHNOLOGIES

Languages: Java, Python, C++, JavaScript, HTML/CSS, Dart
Technologies: React, Node.js, FastAPI, Firebase, NumPy, Pandas, Git, Flutter, Swing, Taipy, Click, Selenium

EXPERIENCE

Research Assistant — June 2023 – Aug. 2023
University of Windsor — *Windsor, ON*
- Used NumPy and Pandas to implement new code for ReQue, a benchmark workflow and dataset collection for Query Refinement, to measure the efficacy of a new **backtranslation expander**
- Selectively added medicine and law related datasets into the codebase after analysing inputs/outputs of various papers concerning backtranslation
- Preprocessed datasets by modifying letter case and removing unwanted characters using regex

Data Science Intern — April 2023 – Aug. 2023
Riverside Minor Baseball Association — *Windsor, ON*
- Maintained and populated the website with sponsorships, promotional media, and news articles for the 2023 season, leading to a **12%** increase in registration compared to the 2022 season
- Used Pandas to create an updated player list in Python, increasing player data retrieval by **200%**
- Automated and managed rosters and schedules for 6 age groups, totaling to **30+** teams and **360+** players

Co-Founder — June 2023 – July 2023
CodeQuest Summer Camp — *Windsor, ON*
- Organized a week-long summer camp teaching Grade 5-8 students the fundamentals of problem solving and coding in Python with the graphics library Pygame
- Created the front-end of the landing page and sign-up form with HTML and CSS
- Ran educational coding-themed activities to foster students' passion for programming

Computer Science Instructor — Sept. 2023 – June 2024
Vincent Massey Computer Science Club — *Windsor, ON*
- Created lesson plans in Python to teach algorithms and data structures such as breadth-first search, recursion, arrays, hash-maps, and strings to **30+** students
- Hosted club-wide contests to help prepare students for competitive programming competitions like the CCC

PROJECTS

FYLY | *Git, Python, Click, React, React, Taipy* — **August 2023**
- Utilized Python Click to create a user-friendly command-line app that allows users to organize and categorize digital files and folders
- Developed commands such as "upload-to-drive" (uploading files to Google Drive using the Google Drive API) and "smart-sort" (sorting files into folders based on file extensions and filename contexts)
- Created easily interpretable graphs that displayed file extension and storage usage analytics with Taipy

HealthScreen | *Git, Flutter, Dart, Firebase* — **January 2024**
- Developed a full-stack medical diagnostic test for **screening illnesses in women**
- Used Firebase Cloud Store to create a login system that stores user login information with screening results
- Delegated tasks such as user experience, graphical interface design, and data collection to a team of 3

EDUCATION

University of Waterloo | *Bachelor of Computer Science* — **Waterloo, ON**
President's Scholarship of Distinction — *Sep. 2024 – Apr. 2028*