

Canran (Bruce) Lin

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Skills

Technical Skills.....

- Programming Languages: Python, C, Java, R, HTML, CSS, JavaScript, PHP, Git, SQL, Racket
- Proficient with Microsoft Office, Markdown, LaTeX
- Proficient with VSCode; have experience in Vim, PyCharm, Eclipse and IntelliJ IDEA
- Proficient with using Windows 10/11, MacOS, and Linux (Ubuntu).

Soft Skills.....

- Fluent in both English (IELTs 7 in Grade 11) and Chinese (Native) and know a little bit of French
- Analytical Thinking; Adaptability; Conflict resolution; Effective Communication; Public Speaking; Teamwork & Collaboration, Leadership; Problem Solving; Time Management

Experience

Graphics Display Platform Center Intern, AI Recognition Group [Rockchip](#)

CN 09/2024 - present

- Rockchip is an AI chip company, and my current team is working on an AI camera project focused on image and sound recognition.
- Independently completed a video scraping project and a speech recognition and translation project.
- Collaborating with my team to develop an original translation model.
- Transferable skills: Python, Linux, Web Scraping, scripting, teamwork, critical thinking.

Entrepreneurial Project: Resource Integration Website Development

Project Leader & Front-End Developer

2024–Present

- Leading the development of a platform for connecting technical workers (e.g., gardeners, plumbers, electricians).
- Using React, Flask, MySQL; working with HTML, CSS, JavaScript, SQL, Python.
- Addressed challenges in web development, UI design, and partnerships with incubators.
- Coordinated the team and initiated work with Waterloo's Velocity incubator for front-end development.

Side Projects

VideoScraping - Automated Video Scraping from Bilibili ([GitHub](#))

2024

- Developed a tool to automate and batch scrape videos and related information from Bilibili, the Chinese equivalent of YouTube, using keyword-based queries.
- Fully automated process requiring only a keyword input, eliminating the need for manual bulk entry of URLs, thereby greatly reducing manual workload.
- Significantly enhances video retrieval efficiency, proving highly beneficial for batch video analysis.

GetMp3SubtAndTrans - Subtitle Recognition and Translation ([GitHub](#))

2024

- Implemented a script that utilizes OpenAI's Whisper to extract subtitles from videos and translates them into English using DeepSeek, an AI translation model.
- Achieves high accuracy and speed with the new model, offering rapid and precise subtitle recognition and translation.
- Capable of processing multiple videos simultaneously, resulting in a substantial increase in operational efficiency.
- Integrates subtitle recognition and translation, greatly improving ease of use and operational portability.

Education

BSc Computer Science [University of Waterloo](#)

Waterloo, ON, Canada 2023–Present