

Canran (Bruce) Lin

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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 learning tablet 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, vim, 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.
- 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 scrap** 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.

Skills

Technical Skills.....

- Programming Languages: Python, C / C++, Java, R, HTML, CSS, JavaScript, PHP, Git, SQL, Racket
- Experienced in: algorithm design, object-oriented programming, test automation, web scraping, Utilizing large models
- Proficient with using Linux (Ubuntu), Windows 10/11, MacOS,.
- Proficient with VScode, Vim, Rstudio; have experience with PyCharm, Eclipse and IntelliJ IDEA
- Proficient with Microsoft Office, Markdown, LaTeX

Soft Skills.....

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

Education

Bachelor of Computer Science [University of Waterloo](#)

Waterloo, ON, Canada 2023–Present

Relevant Courses: Object-Oriented Software Dev., Logic and Computation, Intro. to Optimization, Designing Functional Programs, Elementary Algorithm Design and Data Abstraction, Interpersonal Communication, Beginner French, Introduction to Microeconomics, Introduction to Macroeconomics, Business Finance 1.