

# 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 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.
- 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, 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; have experience in Vim, 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.