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.

○ <u>Transferable skills</u>: 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...

○ <u>Programming Languages</u>: 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 <u>Linux (Ubuntu)</u>, Windows 10/11, MacOS,.

○ Proficient with <u>VScode, Vim</u>; 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*

<u>Relevant Courses</u>: 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.