**JetFuel - Data Collection Takehome**

**About**

JetFuel builds an influencer monetization and marketing network, and for many reasons, need to collect data from the social platforms (YouTube, Instagram, TikTok, etc). Accordingly, we are looking for a backend engineer to lead our data collection efforts. This engineer will be solely in charge of building a large-scale data collection system that will power many of JetFuel’s products and efforts. This assessment challenges you to develop a simplified version of what you’d be expected to build as a full-time engineer.

**Assignment**

Included here is a CSV file (tiktok\_influencer\_usernames.csv) containing around 2,000 TikTok usernames. **Your task is to build a web scraper that, for each username provided, collects the following information:**

*Username*

*Name*

*Bio*

*Link in Bio*

*Number of Followers*

*Number of Following*

*Average Views of past 9 video posts*

Please collect all of this information in a .CSV file that can be submitted for our review.

**Notes**

1. You can use **any language or framework** **you’d like** to complete this project.
2. The data provided is actual user input. As such, **the data isn’t clean**. For example, some users will input their username prefixed with ‘@’, but most will not. In many situations, the provided username may not exist on TikTok. Your task is handle these edge cases gracefully, to maximize the number of users we can collection information from.

**Time**

**You have 3 hours to work on this assignment**. After the time is up, compress your working direct into a ‘.zip’ file and send it back! We recognize 3 hours may not be enough time to fully complete this project. However, at a startup, there’s never enough time to do things as well as you’d like. So, please try your best to focus on the important parts, and make as much progress as you can!

**Bonus**

1. Many influencers use multi-link services like LinkTree (<https://linktr.ee/>), as their ‘link in bio’. When your scraper encounters a link from LinkTree, can you scrape that page as well and include all links in your collected data?
2. Many influencers use link shortners like Bit.ly ([www.bit.ly](http://www.bit.ly)). When your scraper encounters a link from Bit.ly, can you auto-redirect it and include the actual link?