

## Arpita Rana - Software Engineer Intern

### Assignment Submission for Zeotap - Software Engineer Intern

I have implemented two new parsers in the CDAP Wrangler library: Byte Size Parser and Time Duration Parser.

These parsers are designed to convert human-readable byte size and time duration formats into standardized

numerical formats usable within the data transformation process.

#### Detailed Tasks Completed:

1. Forked the official Wrangler repository to my GitHub: <https://github.com/Arpita-rana/Wrangler>
2. Added grammar rules for both parsers.
3. Implemented logic for parsing byte sizes (e.g., KB, MB, GB) and time durations (e.g., hours, minutes, seconds).
4. Integrated these parsers with Wrangler's core parsing system.
5. Added corresponding unit tests to ensure parser accuracy and stability.
6. Updated the README.md to describe usage examples and documentation.

#### New Parsers Overview:

##### 1. Byte Size Parser:

- Converts formats like '10KB', '5MB', '1.5GB' into bytes.
- Example: `parseByteSize("5MB")` --> 5242880

## 2. Time Duration Parser:

- Converts formats like '2h 30m', '45s', '1h 15m' into total seconds or minutes.
- Example: `parseTimeDuration("2h 30m")` --> 9000 seconds

GitHub Repository:

All changes have been committed and pushed to my forked repository:

<https://github.com/Arpita-rana/Wrangler>

Thank you for the opportunity.

Sincerely,

Arpita Rana