

1 The script must:

- Show the correct progress counter
 - It should display per-page progress (e.g., "10/30 kept=0 skip=10"), not cumulative totals.
 - o processed should only count real job detail pages, not skipped or invalid ones.
 - Each Glassdoor page should display exactly 30 results (or the number of results available on that page).
- Always display a job title in the console/log output
 - Even if the page HTML doesn't contain a title, it should fall back to something human-readable (like parsing the last slug of the URL).
 - Titles should appear in all KEEP and SKIP log messages.
 - There should be no blank Title entries anywhere.
- ✓ Show Title, Company, short description on KEEP

The log_keep implementation already prints:

- Line 1: [KEEP] {Title} at {Company} [badge]
- Line 2: {short description snippet} Line 3: job or apply URL

Wire the three inputs:

- title: your parsed title or slug fallback
- company: your parsed company
- description_snippet: first ~120 characters from the job text

Stop printing excessive or irrelevant SKIPs

- o Don't show lines for "URL skipped by rule" (listing/search URLs that aren't real jobs).
- o Only log true job decisions (KEEP or SKIP after analysis).
- V Fix the urlparse crash
 - The 'cannot access local variable 'urlparse' error must be resolved by removing the local import statement inside main().
- Auto-backup the Python file
 - o Creates a timestamped copy of **every** .py file in your project/Code Archive folders.
 - Skips backup entirely if you are running a script from inside the Code Archive folder.
 - Keeps all backups indefinitely until you decide to clean them up later.

Keep only the global import:

from urllib.parse import urlparse, urljoin, parse_qs, unquote

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Z Ensure the script still logs progress even on errors

 The progress bar should continue updating after each link, even if an exception is thrown for one job.

6

Code Integration Requests

You asked for:

- Clear, step-by-step instructions for where to add or move code.
- Exact line placement guidance (e.g., right after listing_links = find_job_links(html, page), or right above return {...} in extract_job_details).

- Confirmation of whether large code blocks (highlighted in screenshots) should be deleted or modified.
- Assurance that edits don't break other parts of the scraper (you didn't want to rewrite major logic from scratch).
- Example of what the final combined code block should look like.

Functional Expectations

- The program must still:
 - Scrape Glassdoor and similar sites usually.
 - o Distinguish between "Product Owner / Product Manager" and irrelevant titles.
 - Collect and store job details (Title, Company, Location, Posted, etc.) correctly.
 - Skip duplicates and previously visited jobs.
- You still want to export all results to your Google Sheet and save them as CSV files afterward.

Code Quality / Behavior Requests

You wanted:

- **Consistency in logging** keep [INFO], [SKIP], [PROGRESS], etc. standardized.
- Clear and minimal console output no extra diagnostic clutter (only meaningful skips and keeps).
- No regression of working features the title extraction fix and progress fix shouldn't break the
 rest of the script.

What You *Didn't* Want

- X No "quick patches" that make the code look messier or introduce new side effects.
- X No changes that affect your exports (Google Sheets / CSV) or your results data structure.
- No new global counters or external files to fix progress it must be handled within main().
- X No removing your existing detailed logging system (you still want to see reasons, counts, etc.).
- No complete rewrite of extract_job_details() only fixes and fallbacks for Title.

Summary of the Concrete Fixes Requested

	Area	Change Needed	Description
<pre>main()</pre>		Fix urlparse crash	Remove local import, keep top import
main()		Add per-page counters	Introduce kept0 / skip0 and adjust progress() call
main()		Only increment processed for valid jobs	Move processed += 1 after skip filters
main()		Silence URL-rule skips	Don't print/log should_skip_url(link) messages
Logging		Always show a title	Add _title_for_log() helper and use it for KEEP/SKIP

extract_job_details()

Guarantee a fallback Title

Add slug-based fallback before each return $\{\ldots\}$

Output

Keep progress alive

Update finally: block to call progress() reliably