

# Backend Developers (Intern)

## ***Job Description***

- Develop the backend architecture of AI Utilities using Python/Golang
- Develop API endpoints for ChatBot and other AI Utilities
- Integrate AI Utilities with various APIs and databases
- Writing clean code to develop AI Utilities
- Collaborate with frontend developers to ensure integration of ChatBot and AI utilities with user interface.
- Write automated tests (Unit & Functional) for CI on Bitbucket Pipeline.
- Troubleshoot any technical issues with the AI Utilities
- Design procedures for system troubleshooting and maintenance
- Build tools to reduce occurrences of errors and improve customer experience

## ***Video Idea***

- Convert any pdf to a long text file, and png/jpeg for diagrams (probably need to find a way to convert the diagrams to text, so the LLM can understand what is in the diagram, or redraw the diagram with some image AI - need to research on this)
- Segment this long text due to token limit (Tokenize then predict for greater segmentation efficiency)
- Parse each segment into LLM to generate a more summarized version
- Concatenate all the summaries and parse it into LLM again to generate video script, with separate scenes, something like a powerpoint slide
- From each scene, use LLM again to find keywords. Use an agent on langchain to search the web for an image/gif of that keyword (don't think we need to scrape the web, just get some open source gifs).
- Parse each scene's script into audio generation AI
- Now for each scene, there is an audio file and a gif
- Write an automated script (native program) to generate the video