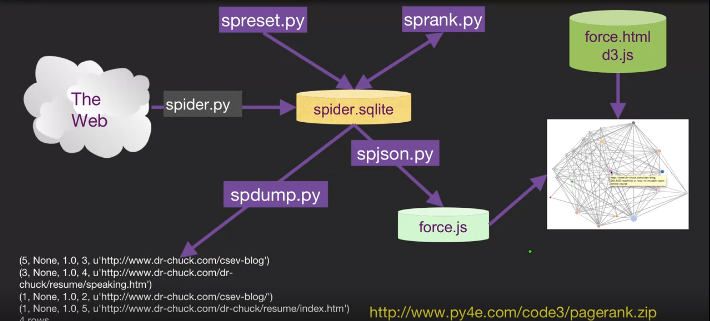
**Search Engine Architecture:**

1. Web Crawling:  
   - Start with a list of URLs to visit, known as seed URLs. When a crawler visits a URL, it identifies all the hyperlinks on the page, adds them to its list of URLs to visit, and proceeds to the next URL  
   - Crawlers must respect the rules set by website administrators, typically specified in the robots.txt file, which outlines the pages or directories that should not be crawled  
   - Crawlers need to handle various types of web content, including HTML, CSS, JavaScript, and multimedia files
2. Index Building:  
   - The process of creating a structured database that allows for efficient and quick retrieval of information from a large set of documents, typically web pages.  
   - This process involves analyzing the content collected by web crawlers, extracting relevant data, and organizing it into an index
3. Searching  
   - The process by which a search engine retrieves relevant documents from its index in response to a user's query

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Description automatically generated

**Page Rank Algorithms:**

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