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# Jackson Shinpaugh

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jackson.shinpaugh@gmail.com / (360) 690-5951 / West Hollywood, CA 90046

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## Experience

### Task Force Butler - Data Scientist

12/2022 - Current

Los Angeles, CA

- Utilized the Google Drive, Sheets, and Docs API to scrape and parse 2 years+ of legacy documents to create tabular data which was then inserted into an SQL relational database.
- Developed a Chrome extension that scrapes and parses the raw html from a webpage to pull out body text, links, images, etc. and inserts data into the SQL database.
- Wrote SQL queries using programs such as Postgres and MySQL to make important connections between data from Google Drive and data pulled from the web.
- Integrated OpenAI's API to generate summaries as well as pull important names, locations and dates from a given webpage at the users demand.
- Created Slack extension that takes in a database question in english, and outputs an SQL query to allow researchers with little technical knowledge to query the database.

### Glimpse - Data Scientist

08/2021 - 02/2023

Los Angeles, CA

- Implemented deep learning models such as object detection, action recognition, audio classification, and speech recognition and deployed to web using AWS.
- Processed videos using deployed models and stored model results in Postgres database.
- Queried database to generate graph of detections over time for each video processed.
- Developed proprietary annotation tools in python to collect, store, visualize, and analyze training data for models in a central database.

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## Skills

**Programming:** Python, R, SQL (Postgres, MySQL), Bash (Linux Shell Scripting)

**Frameworks/Packages:** Pytorch, SciKit-Learn, Pandas, Numpy, Flask/Fastapi, Django, OpenAI API, Drive API, Google Docs API, Sheets API, Matplotlib, Google Cloud Platform, AWS, Github, Docker, Supabase, Heroku, Tableau, MS Excel, Ableton

**Mathematics:** Linear algebra, Statistics, Calculus

**Other:** Web Scraping, Database Design & Management, Data Organization and Analysis

## Education and Training

09/2020

### Washington State University

Vancouver, WA

**Bachelor of Science:** Finance

- Graduated cum laude with 3.5 GPA
- Relevant coursework: Linear Algebra, Calculus, Statistics, Accounting, Investment Analysis, Management Information Systems, Financial Modeling, Intl. Finance

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## Projects

LLM chat-bot assistants

- Utilized SOTA natural language processing models to program chat bot to converse with user upon detection of user speech.
- Integrated payment system that accepts subscription payments and stores customer information and credit balance in a database.
- Curated custom Davinci3 prompts to characterize bots.
- Deployed to multiple platforms including Discord and Twitch.