Felix Wang

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EDUCATION

Georgia Institute of Technology   Atlanta, GA | Expected May 2024
BS in Computer Science | GPA: 4.0
Coursework: High Performance Computing, Systems and Networks, Networking, Computer Organization and Programming, Design and Analysis of Algorithms, Database Systems, Data Structures and Algorithms, Object Oriented Programming, Blockchain and Cryptocurrency, Robotics and Perception

RELEVANT EXPERIENCE

DATADOG | Incoming Software Engineer Intern   New York, NY | May 2023 - Aug 2023

GOOGLE | Software Engineer Intern   Remote | Aug 2022 - Nov 2022
- Built a service to asynchronously respond to and execute remote procedure calls to return user attributes for customization of content displayed on the Google Cloud web interface, increasing user engagement.
- Created a database table to serve as a cache and implemented the data access layer to decrease the response latency from approximately 3000 ms to 100 ms, an improvement of over 96%.
- Set up an end-to-end parallel data processing pipeline to periodically backfill the database table with historical user attributes by reading from external data stores in order to minimize data staleness.

AMAZON | Software Development Engineer Intern   Seattle, WA | May 2022 – Aug 2022
- Developed and deployed a service in Kotlin that queries performance metrics from Amazon's internal network and publishes the data to a DynamoDB table every 30 minutes.
- Scaled the service by designing and implementing a JSON configuration template to add support for all metrics.
- Decreased the operational load required for customer data inquiries and improved data visibility by integrating the service with a web interface, which serves as a centralized and accessible location for customers to track their data.

PROJECTS

MOODI ↗   Python, Flask, HTML/CSS, NLP
Spotify web application that displays a user's listening statistics.
- Generated and displayed a user's top tracks and enabled users to save songs to their Spotify library.
- Developed a search function and presented an audio analysis and recommended songs of a chosen track.
- Utilized the Natural Language Toolkit (NLTK) to perform a sentiment analysis on a specific song's lyrics.

CAR-BON ↗   Flutter, Dart, Android Studio, Google Firebase
Mobile app to automatically track your car's carbon footprint.
- Integrated location tracking to detect a user's driving route and the cumulative distance travelled.
- Calculated and stored the approximate levels of carbon emissions from a trip in a Google Firebase back end.
- Designed the front end, visualizing a user's carbon footprint and a breakdown of their most recent trips.

FUELR ↗   Python, Flask, JavaScript, HTML/CSS, BeautifulSoup
Web application that plans the best gas stops for your trip.
- Returned gas stations within a certain radius of waypoints along the route using the Google Maps API.
- Built a webscraper to scrape each gas station's GasBuddy page for its gas prices and star rating with BeautifulSoup.
- Improved runtime by over 50% by multithreading with concurrent.futures.

USHOE ↗   Python, Artificial Intelligence, BeautifulSoup, Selenium
Clarifai AI model trained on images of a user's favorite shoes.
- Scraped the new release pages of certain shoe brands using BeautifulSoup and Selenium.
- Tested new shoes against images of a user's favorite shoes and determined potential matches.

SKILLS

Languages: Python, Java, Kotlin, C/C++, SQL, JavaScript, HTML/CSS, Dart
Technology: Git, gRPC, Guice, DynamoDB, Flask, Linux, Flutter, Android Studio