

Felix Wang

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EDUCATION

Georgia Institute of Technology

Atlanta, GA | Expected May 2024

BS IN COMPUTER SCIENCE | GPA: 4.0

Coursework: Database System Implementation, Machine Learning, High Performance Computing, Networking, Systems and Networks, Design and Analysis of Algorithms, Robotics and Perception, Computer Organization and Programming, Database Systems, Data Structures and Algorithms, Object Oriented Programming

RELEVANT EXPERIENCE

DATADOG | SOFTWARE ENGINEER INTERN

New York, NY | May 2023 - Aug 2023

- Spearheaded development of a service classifying customers by the total bytes of data ingested to more efficiently allocate data among a low latency in-memory distributed database, reducing query latency and network traffic.
- Emitted metrics and logs to the DataDog UI and set up monitors to alert on potentially misclassified organizations, accelerating the transitioning process for misclassified organizations.
- Built a dashboard of service level objectives and current performance, allowing easy monitoring of service health.

GOOGLE | SOFTWARE ENGINEER INTERN

Sunnyvale, CA | Aug 2022 - Nov 2022

- Implemented 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.

GEORGIA INSTITUTE OF TECHNOLOGY | STUDENT RESEARCHER

Atlanta, GA | Jan. 2021 - May 2022

- Optimized cutoff distance for a nearest neighbor subsampling algorithm to eliminate redundant data points.
- Fine-tuned hyperparameters to minimize the mean squared error for a neural network.

BIG DATA BIG IMPACT | DATA ANALYST

Atlanta, GA | Aug. 2020 - Dec. 2020

- Cooperated with three other team members with the goal of optimizing the balance of electricity in an electric grid.
- Implemented an ARIMA time series to forecast future hourly solar irradiance at certain Georgia solar farms.

PROJECTS

MOODI 

PYTHON, FLASK, HTML/CSS, NLP

- Queried the Spotify API to present a user's top tracks and enable users to save songs to their Spotify library.
- Performed a sentiment analysis on a specific song's lyrics using the Natural Language Toolkit (NLTK).

CAR-BON 

FLUTTER, DART, ANDROID STUDIO, GOOGLE FIREBASE

- 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.

SKILLS

Languages: Python, Golang, Java, C/C++, Kotlin, SQL, JavaScript, HTML/CSS, Dart

Technology: Git, Kubernetes, OpenMPI, gRPC, Guice, DynamoDB, Flask, Linux, Flutter, Android Studio