Felix Wang

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EXPERIENCE

DATADOG | Software Engineer   New York, NY | July 2024 - Present
- Directed the end-to-end design, development, and release of a Request Access feature, enabling users to request permissions upon 403 errors and improving developer productivity by reducing access friction.
- Facilitated cross-team migrations to a centralized access control system, driving technical alignment and ensuring smooth adoption with zero regressions.
- Introduced pagination across APIs, streamlining data retrieval and improving large dataset performance by 30x.
- Productionized temporary roles, allowing admins to configure the permission assignment duration and strengthening security through the principle of least privilege.
- Diagnosed and optimized a high-traffic API endpoint, resolving timeout errors and improving resiliency for a major enterprise customer.
- Led incident response during critical customer escalations, triaging failures, coordinating resolution, and delivering actionable follow-ups from postmortems.
- Helped shape quarterly OKR goals and product direction, identifying next steps and translating them into engineering milestones.

DATADOG | Software Engineer Intern   New York, NY | May 2023 - Aug 2023
- Implemented a service to classify customers by ingested data volume, optimizing allocation across an in-memory distributed database and reducing query latency and network traffic overhead.
- Emitted metrics and logs to the DataDog UI and set up monitors to alert potential 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 an asynchronous gRPC API to return user attributes for the personalization of content displayed on the Google Cloud web interface, increasing user engagement.
- Created a database table to serve as a cache due to high latency sensitivity to decrease the response latency from approximately 3000 ms to 100 ms, an improvement of over 96%.
- Constructed an end-to-end parallel data processing pipeline in Apache flume to periodically backfill the database table with historical user attributes from external data stores in order to minimize data staleness.

AMAZON | Software Development Engineer Intern   Seattle, WA | May 2022 – Aug 2022
- Developed a periodic service in Kotlin that queries performance metrics from Amazon's internal network and publishes the data to a DynamoDB table every 30 minutes.
- Made the service extensible to future use cases by making the metric type configurable through a JSON template.
- Decreased the operational load required for customer data inquiries and improved data visibility by integrating the service with a web interface serving as a source of truth for EC2 cell metrics.

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.

EDUCATION

Georgia Institute of Technology   Atlanta, GA | Dec 2023
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

SKILLS

Languages and Technologies: Golang, Python, Java, C/C++, SQL, Git, PostgreSQL, gRPC, Kubernetes