
Statement

Laid off by Amazon due to the reduction of my organization by 2/3 of all engineers and managers. For questions on performance or ability, contact my manager, Ricky Ghov, at rickyghov@gmail.com or 626-265-1615.

Employment

Software Development Engineer	Amazon.com, Inc.	July 2022 – February 2023
--------------------------------------	-------------------------	----------------------------------

Amp, Web Experience and Expansion

- Designed personalization of web player shows in Amazon Music using customers' Amazon profile.
- Led web player integration with Amazon Music, including CX changes and metrics for different origins.
- Redesigned the web player to have a reactive CX that dynamically resizes to fit any container its embedded in.

Amp, Machine Learning Infrastructure

- Created the inference pipeline with concurrent deployments to endpoints with near zero downtime.
- Built and integrated the feature engineering module containing our processing scripts, incorporating multi-threading and parallelism to cut processing time by an estimated 80%.
- Integrated ML hate speech detection to user and show metadata content moderation.
- Created integration tests and alarms for inference pipeline and feature engineering and wrote the runbooks for the ML training platform, documenting how to debug and fix issues in case of alarm.

Software Dev Engineer Intern	Amazon.com, Inc.	Summers 2020 – 2021
-------------------------------------	-------------------------	----------------------------

Core Machine Learning Services (Summer 2021)

- Created a Python SDK to allow ML scientists to create and use images from one environment.
- Abstracted image builds and image referencing to allow scientists to start training and processing with their experimental image from a Jupyter notebook.
- Designed a version set system to push and pull Docker images to team-shared remote repositories.

Core Machine Learning Services (Summer 2020)

- Fully designed and implemented a management website for the secure EC2 instances for ML experimentation.
- Allowed users to set up an entire instance in one click, decreasing setup time from minutes to a few seconds.
- Designed a login system to be used across all the team's UIs, creating a centralized hub for customers.

Software Engineer Intern	SAS Institute	Spring 2020
---------------------------------	----------------------	--------------------

- Implemented caching of user settings for specified graphs in a web interface.
- Built a user interface for saving the user settings for interactive graphs.

Education

Chapel Hill, NC	University of North Carolina	Fall 2018 – Spring 2022
------------------------	-------------------------------------	--------------------------------

- BS in Mathematics and Computer Science. GPA: 3.76
- Relevant Coursework: Distributed Systems; Operating Systems; Files and Databases; Algorithms

Projects

- **Amp Regions** (2022). 2nd Place – Amazon org-wide hackathon. A distributed region mapper to allow users to see shows within their region. Incorporates configurable regions and zero downtime upon re-configuration.
- **Mortgage Approval Predictor** (2020). 1st Place – Carolina Data Challenge 2020. A full-stack web application that uses a Machine Learning model to predict if a user will get their mortgage approved.

Languages and Technologies

- Python; Java/Kotlin; JavaScript/Typescript; C/C++; SQL; Go; AWS; Spark; Docker; React; GraphQL