

Nikhil Ajjarapu

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Experience

Artificial Intelligence/Machine Learning Intern, Apple

APPLE PLATFORM KNOWLEDGE

06/2021 – 08/2021

- Implemented support for new functionality in **Knowledge Graph** APIs
- Built **evaluation framework** to provide **quantitative metrics** during update of the knowledge graph
- Launched framework to **production**, currently in use by **multiple teams** within AI/ML organization

Software Engineer Intern, Lyft

TRANSIT, BIKES, AND SCOOTERS, GROWTH AND MEMBERSHIPS

01/2021 – 04/2021

- Scaled up and performed maintenance on Lyft's **backend services** as a **server engineer** intern
- Improved **efficiency** and decreased **error** rate of duplicating and retrieving **membership offers**
- Introduced **TBS-specific referrals** to **all Partner Apps**

Software Engineer Intern, Lyft

PERCEPTION, LEVEL 5

06/2020 – 07/2020

- Built **end-to-end framework** to prevent **critical regressions** on **Perception stack**
- Created a **plugin** that allows users to **highlight** and **upload critical lidar obstacles** to **BigQuery**
- Designed **Mode dashboards** to visualize **critical obstacle level metrics**

Undergraduate Researcher, CVC Lab

COMPUTATIONAL VISUALIZATION CENTER LAB, ODEN INSTITUTE

06/2020 – Present

- Applied **probabilistic machine learning** methods for leads towards **neutralizing SARS-CoV-2**
- Ran simulations on **Frontera**, UT's supercomputer
- Working on **DEDRECON**, which applies advanced machine learning to **real-life image visual perception** under **multi-modality fusion** techniques

Software Engineer Intern, DeepMap

INFRASTRUCTURE

05/2019 – 08/2019

- Sped up **MapReduce pipeline** to **10x** the **industry standard**
- Created **LSM-tree** based **database** and mock server-client **MapReduce service** for production of autonomous HD maps
- Revamped **production pipeline** and set up project for **real-time** use

Education

University of Texas, Austin

Austin, TX

MASTER OF SCIENCE (M.S) IN COMPUTER SCIENCE

August 2022 – May 2023

Graduate Courses: Datacenters, Spoken Language Technologies

BACHELOR OF SCIENCE (B.S) IN COMPUTER SCIENCE, TURING SCHOLAR

August 2018 – May 2022

Honors Courses: Operating Systems, Algorithms, Data Structures, Discrete Math, Artificial Intelligence, Data Mining

Extracurriculars: Tech Officer of Freetail Hackers, Texas Convergent, Member of UT Austin Varsity Debate Team

Projects and Skills

Rookie NFL Quarterback Success Estimator

SELECTED FOR TEXAS CONVERGENT SIDE FAIR EXPO 2019

Uses **Epsilon-Support Vector Regression** on player performance to **estimate success of rookie quarterbacks**

Programming Languages/Frameworks: C++/C, Python, Go, Javascript, React, Pytorch/Tensorflow, Java, SQL

Spoken/Written Languages: English (Fluent), Spanish (Conversational), Telugu (Fluent)