Nikhil Ajjarapu

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Experience

Software Engineer Intern, Lyft
Transit, Bikes, and Scooters, Growth and Memberships Team *01/2021 – 04/2021*

- As a **server engineer** intern, helped improve and maintain Lyft's **backend services**
- Improved **efficiency** and **error** rate of duplicating and retrieving **membership offers**
- Introduced **TBS-specific referrals** to **all Partner Apps**

Software Engineer Intern, Lyft
Perception Team, Level 5 *06/2020 – 07/2020*

- Built **end-to-end framework** to prevent **critical regressions** on **Perception stack**
- Created **plugin** that allows users to **highlight** and **upload critical lidar obstacles** to **BigQuery**
- Created **Mode dashboards** to visualize **critical obstacle level metrics**
- Launched project in **production** and is currently used by **Perception** team

Undergraduate Researcher, CVC Lab
Computational Visualization Center Lab, Oden Institute *06/2020 – Present*

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

Software Engineer Intern, DeepMap
Infrastructure Team *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

B.S in Computer Science Honors, Turing Scholar *August 2018 – May 2022*

Honors Courses: Operating Systems, Computer Architecture, 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

Classification of Medical Problems through SMS (MedicAI)
Won the Morgan Lewis Grand Prize at Synopsys Science Fair 2017

Uses **natural language processing** to provide **instant medical diagnoses** based on visual and textual input

Rookie NFL Quarterback Success Estimator
Selected for Texas Convergent Side Fair Expo 2019

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

60Seconds
Won Grand Prize First Overall and Best .tech Domain Hack at Basehacks 2017

Online **journaling program** using phone calls, uses **sentiment analysis** to determine overall happiness

Skills

Coding Languages: C++/C, Python, Javascript, Java, Go, SQL, HTML, CSS

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