# Mayank Daruka

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#### **EDUCATION**

# The University of Texas at Austin, Austin, TX

May 2023

- Bachelor of Science in Computer Science and Mathematics
- GPA: 3 97
- Interests: Full-Stack Web/Mobile App Development, Deep Learning, Natural Language Processing, Data Science
- **Relevant Coursework:** Data Structures, Discrete Math, Multivariable Calculus, Computer Architecture, Linear Algebra, Probability and Statistics, Differential Equations, Operating Systems, Competitive Programming
- Programming Languages: Java, Python, C, JavaScript, HTML/CSS, SQL, Dart
- Technologies: Flask, ReactJS, NodeJS, React Native, Flutter, Tensorflow, Keras, Scikit-Learn, Firebase, MongoDB, AWS

## LEADERSHIP, ACTIVITIES, AND EXPERIENCE

#### **Dive Chat**

## Software Engineer Intern | Austin, TX

May 2020 - Present

- Built web and mobile interfaces of channel-based messaging app with dev. team using ReactJS, React Native, and Redux
- Improved Firebase query time through listener optimization and web caching, constructed data security rules
- Implemented contact integration, asset bundling/caching with CDNs, conversation encryption, Google Cloud Functions

#### **Big and Mini**

# Full-Stack Software Developer | Austin, TX

Jun 2020 - Present

- Developed phone + video calling platform with Jitsi, ReactJS, NextJS, and HTML/CSS
- Built an automated email reminder system by running scheduled jobs on NodeJS functions deployed to AWS Lambda via AWS Cloudwatch; automated multivariate user matching with complex Java algorithms

## **Texas Convergent - UT Austin**

# Build Team Technical Developer | Austin, TX

Feb 2020 - May 2020

- Developed a budgeting application that handles user finances and maintains a system for tracking item returns with React Native and Parse REST API – product presented in front of company recruiters and engineers
- Learned to build and design tech prototypes, business proposals, and pitches under the guidance of experienced leads

## S.A.M. Singapore Math

## Math Instructor | Sugar Land, TX

Jun 2018 - Sep 2018

Tutored Mathematics to middle school and high school students, and managed the daily activities of the center

## **ACADEMIC PROJECTS**

# Styudor - Sole Developer/Creator (Android and iOS)

May 2020 - Present

- Flutter application that connects students in need of tutoring in GRE, MCAT, GMAT etc. with qualified tutors nearby
- Implemented SMS phone authentication with Firebase, created REST API to fetch data with NodeJS, ExpressJS, used MongoDB Atlas for server backend/data storage

# Laundry Line - Developer/Creator (Android and iOS)

Feb 2020 - Present

- Developed a cross-platform app using React Native and solves laundry-related issues in UT dormitories
- Extensive UI/UX that displays the real-time status of laundry machines and allows for individualized texting on each floor of the dormitory; Firebase used for data storage and user authentication

## **Red Meter - Sole Developer/Creator**

Apr 2020 - May 2020

- Built a webpage with Flask that analyzes sentiments about Trump with Natural Language Processing
- Streamed real-time tweets about Trump to a Pandas dataframe; used SQLite for CRUD operations
- Trained a Keras RNN model with 1.6 million tweets and Word2Vec embeddings in Tensorflow to detect polarity in texts

# Kinetic Keys (Computer Real-Time Vision) - Developer/Creator

Ian 2020 - Mar 2020

- Created interface with ReactJS that uses a webcam to detect alphabet-like poses to create letters that spell out words
- Incorporated a Tensorflow Machine Learning model that was trained with ∼5000 images to recognize human poses
- Showcased product and presented demo to company recruiters/engineers at Texas Convergent Side Project Expo 2020

#### OTHERS

Hackathons Attended: HackTX 2019, LeapHacks 2020, SummerHacks 2020

Honors and Awards: National AP Scholar; National Merit Commended Scholar; Siemens Foundation Merit Scholar

Training/Certifications: AWS Machine Learning, ReactJS + Redux, Cloud Computing

**Work Authorization:** Eligible to work in the US with no restrictions