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 **Jan 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