# TEJAS MEHTA

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## EDUCATION

| The University of Texas at Austin | Texas Honors Computer Science and Business | May 2023 |
|---|---|---|
| | Bachelor of Science in Honors Computer Science, Applied Statistical Modeling Certificate | |
| | Bachelor of Business Administration, Canfield Business Honors, Management (Entrepreneurship) | |
| | GPA: 3.9670/4.0 for 30 hours | |

## RELEVANT COURSEWORK

Honors Data Structures, Honors Computer Architecture, Honors Discrete Mathematics, Robot Learning, Honors Intro to Information Technology Management, Probability and Statistics, Longhorn Startup Seminar, Data Visualization and Quantitative Methods

## EXPERIENCE

**The Home Depot –** *Software Engineering Intern;* Austin, TX (Remote)                                          June 2020 - August 2020
- Developing an autocomplete text field for self-checkout that allows professional contractors to store their transaction by job name
- Utilizing React, Redux, and Java (Spring Boot)
- Designing for professional contractors around the US that are responsible for over 45% of the Home Depot's revenue

**Zimperium Mobile Security** - *Software Engineering Intern;* Dallas, TX                                          June 2019 - August 2019
- Developed and hosted a full stack webapp using a Python/Flask Backend and a HTML, CSS, and JavaScript (JQuery) frontend
- Designed the tool to visualize VPCs in an interactive map and provide live metrics, endpoints, and attributes for 87 VPCs
- Implemented an API to post and update data automatically and created a secure Firebase Database protected with Firebase Auth
- Deployed using Ansible and Shell and is currently used by 143 (70%) employees in engineering, sales, and management

**UNT EFRI Phononics Lab** - *Research Fellow*; Denton, TX                                          October 2017 - May 2019
- Utilized MATLAB, IdealCircuit, R, and Plotly to create a novel form of encryption utilizing quantum tunneling and Anderson Localization for an untraceable and frugal means of communication
- Authored paper and presentation submitted to the Texas Junior Academy of Science

**XLabs** – *Curriculum Developer*; Remote                                          August 2019 - Present
- Mentoring a group of young students in developing sustainable IOT projects and developing introductory ML curriculum
- Assisted with marketing by organizing and leading outreach events to increase XLab's consumer base

## PROJECTS

**LocoEats** – *Web*                                          April 2018 - Present
- Locally owned and Black owned restaurant discovery service with over 2000 unique users, 8100 pageviews, and 5943 queries
- Built using ReactJS, Python (Flask), and PostgreSQL, deployed using Cloud Run, Cloud SQL, and monitored using Google Analytics

**CraveRN** – *Web, Google Play Store*.                                          March 2020 - Present
- Restaurant discovery service that utilizes an image-based search engine to display personalized restaurants to users
- Developed using a Python (Flask) backend, a HTML/CSS/JS frontend, that utilizes Firebase Database and Google Cloud Storage
- Deployed using Google Cloud Run. Cross-platform native mobile application designed using Flutter (Dart)

**Vicaya Web Crawler and Search Engine** – *Personal Project (Started as School Project)*
- Crawled over 1,000 pages of wikipedia.org and stored their descriptions, titles, and words in a quickly searchable 40mb index.
- Developed query engine using Djisktra's shunting yard algorithm capable of phrase, and, or, and negation queries under 1 second.
- Deployed using Google Cloud Run, Compute Engine (VM), Cloud Storage, and Spring Boot (Java)

## LEADERSHIP EXPERIENCE AND ACTIVITIES

**Computer Science and Business Organization –** *Vice President of Technology*                                          April 2020 - Present
- Developed TexasCSBA.org (ReactJS+Firebase) and created an automated email, calendar, subscription, and feedback infrastructure

**Student Government Organization** - *Senator*                                          May 2018 - May 2019
- Represented 374 students at UNT and promoted funding for TAMS clubs, healthier food, and a safe, inclusive residence hall
- Launched a peer support program upliftstress.com with the support of the dean, psychologist, and director of student life
- Interviewed and trained 10 students to be peer supporters for the service now available to 374 students

## HONORS

- International Collegiate DECA: 2nd Entrepreneurship Challenge, 4th Emerging Technologies Marketing Strategies          April 2019
- Undergraduate Research Fellowship                                          November 2018
- University of North Texas President's List (4 semesters)                                          August 2017 - May 2019
- Texas Junior Academy of Science: 2nd place Engineering                                          October 2018

## ADDITIONAL INFORMATION

**Technical Skills:** Proficiency: Java, Python, C, React, HTML/CSS, Google Cloud| Exposure: JS, PyTorch, SQL, Angular, Flutter, Git, Creo
**Languages:** Fluent in English and Hindi, Basic Understanding of Spanish and Punjabi
**Work Eligibility:** Eligible to work in the U.S. with no restrictions