

# 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: 3.97/4.0

## 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

- Developed an autocomplete form in self-checkout that allows professional contractors to store their transaction by job name, a feature crucial for > 40% of Home Depot's revenue and now in the process of being deployed to production in stores around the US
- Utilized **React**, **Redux**, **Java (Spring)**, and **WebSocket** communication while modifying the register and self-checkout codebases
- Wrote unit tests using **JUnit** and **Jest** and implemented a feature flag to toggle the feature in select stores

**Zimperium Mobile Security** - *Software Engineering Intern*; Dallas, TX June 2019 - August 2019

- Developed a Web App using **Python (Flask)**, **HTML**, **CSS**, and **JavaScript (jQuery)** detailing Zimperium's cloud infrastructure
- 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 **Firestore** 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

- Authored paper and presentation submitted to the Texas Junior Academy of Science which was awarded 2<sup>nd</sup> place in engineering
- Using **MATLAB** and **R**, created a frugal and untraceable encryption system utilizing quantum tunneling and Anderson localization

**XLabs** - *Curriculum Developer*; Remote August 2019 - Present

- Mentoring a group of young students in developing sustainable **IOT** projects and writing introductory **machine learning** curriculum

## PROJECTS

**LocoEats** June 2020 - Present

- Locally owned and Black owned restaurant discovery service with over 2000 unique users, 8300 pageviews, and 6100 queries
- Built using **React**, **Python (Flask)**, and **PostgreSQL**, deployed using **Cloud Run**, **Cloud SQL**, and monitored using **Google Analytics**

**CraveRN** - (*Google Play Store*) (*App Store*) March 2020 - Present

- Mobile and web app with an image-based search engine to display personalized and currently open restaurants to users
- Developed using a **Python (Flask)** backend and a **HTML/CSS/JS** frontend that utilizes **Firestore Database** and **Google Cloud Storage**
- Deployed using **Google Cloud Run**. Cross-platform (**iOS** and **Android**) application designed using **Flutter (Dart)**

**Vicaya Web Crawler and Search Engine** December 2019 - Present

- 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 Dijkstra'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 Association** – *Vice President of Technology* April 2020 - Present

- Created [TexasCSBA.org](http://TexasCSBA.org) (**React**) with features including 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](http://upliftstress.com) with the endorsement 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: 2<sup>nd</sup> Entrepreneurship Challenge, 4<sup>th</sup> Emerging Technologies Marketing Strategies April 2019

• Undergraduate Research Fellowship November 2018

• University of North Texas President's List (4 semesters) August 2017 - May 2019

## ADDITIONAL INFORMATION

**Technical Skills:** Java, Python, C, React, HTML/CSS, Google Cloud Platform, JavaScript, SQL, PyTorch, Flutter, Creo, Git

**Languages:** Fluent in English and Hindi, Basic Understanding of Spanish and Punjabi

**Work Eligibility:** Eligible to work in the U.S. with no restrictions