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

SKILLS

Programming Languages: Java, Python, C, JavaScript, HTML/CSS, SQL
Frameworks and Platforms: React, Flutter, Google Cloud Platform, Firebase, PyTorch, GatsbyJS, Docker, Git, Figma, Creo, Fusion 360
Certifications and Summits: Capital One Software Engineering Summit, Google CSSI-Coursera

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 over 40% of Home Depot's revenue and being deployed to over 50,000 registers in 2,200 stores in North America
• Utilized **React**, **Redux**, **Java** (**Spring**), and **WebSocket** communication while modifying the register and self-checkout codebases
• Wrote unit tests using **JUnit**, end-to-end tests using **Cucumber**, and a feature flag to enable the feature in select stores

XLabs - *Curriculum Developer*; Remote   August 2019 - Present
• Mentoring a group of young students in developing sustainable **IOT** projects and writing introductory **machine learning** curriculum

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

PROJECTS

LocoEats   June 2020 - Present
• Locally owned and Black owned restaurant discovery service with over 2280 unique users, 9400 pageviews, and 9300 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 **Firebase 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 (**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 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