

Mustafa Sadriwala

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TECHNICAL SKILLS

Languages	Java, JavaScript, HTML, CSS/SCSS, C/C++, Bash, MIPS
Softwares	React, Git, LaTeX, Maven, Android Studio, Strapi, Matlab, MS Office
Frameworks	React-Native, Spring, Next.js

EDUCATION

University of Texas at Dallas

Bachelor of Computer Science

Minor: Literature

Collegium V Interdisciplinary Honors, CS² Honors Program

Overall GPA: 4.0/4.0

Richardson, TX

Aug 2017 – May 2021

WORK EXPERIENCE

J.P. Morgan & Chase

Software Engineering Intern

Plano, TX

Jun – Aug 2019

- Worked as a **Full-Stack Developer** to deliver an end-to-end web application to create test data to post to Kafka topics
- Developed data generation page and input validation techniques in **React** front-end and scheduled data creation, random data generation, and **REST** API in **Java** back-end.
- Helped with connecting several endpoints and internal data models and in architecting user workflow and application functionality. Also worked with authentication protocols to enable deployment to internal cloud environment.

Plano Intelligence Inc.

Front-end Developer

Plano, TX

May – Sep 2018

- Created an Android app for threat detection. Focused on front-end decisions, troubleshooting, and development.
- Developed and tested app with **Android Studio** and **Java**, enabled and connected notification database, and delivered real-time **WebSocket** connectivity.

Kumon Math and Reading Center

Tutor/Associate

Bedford, TX

May 2016 – May 2017

- Taught children from K-10th grade in Math and English. Graded homework and created specialized lesson plans for each student.
- Managed busy storefront with 30-45 students and occasional parents.

RESEARCH EXPERIENCE

NanoSpinCompute Lab

Student Researcher

UTD

Aug 2018 – Present

- Drafting a report on the usability and logical techniques of implementing Threshold Logic in 3D perpendicular Nanomagnetic Logic circuits.

Advanced Polymer Research Lab

Student Researcher

UTD

Aug 2017 – May 2018

- Researched correlation between the glass transition temperature of shape memory polymers and their post-cure time through Dynamic Mechanical Analysis (DMA). Used **Matlab** for data analysis and visualization.

Multiscale Simulation Lab

Clark Summer Researcher

UTD

June 2017 – Aug 2018

- Modeled the behavior of MnO for more efficient battery material using CTMEAM. Created **Bash** scripts to automate simulation and testing. Used **Matlab** for analysis and **LaTeX** to write final report.

RELEVANT PROJECTS

Comet Marketing

Director of Web Design

Aug 2018 – Present

- Created and maintain Comet Marketing website from scratch with one peer using **React**, **HTML**, and **CSS** for the front-end and **Strapi** and **MongoDB** for the back-end.
- Deployed back-end on Heroku for simple content management and deployed front-end at utdcometmarketing.com.

TAMUHack '19

Back-end Developer

Feb 2019

- Developed RCPT, a mobile app to automatically categorize and analyze receipts to track finances and help college students budget.
- Used **JavaScript** with **NodeJS** to develop sorting algorithms for times and categories. Implemented a **microservices architecture** by deploying on Heroku and connecting with other components using **REST API**.

HackTX '18

Front-end Developer

Oct 2018

- Created SwearBot, an electronic swear jar that detects nearby swears and then donates to a chosen charity. Built custom front-end for a Raspberry Pi with **HTML** and **CSS**.

EarthxHack '18

Front-end Developer

April 2018

- Created Green Raccoon, a cross-platform app implemented with **React-Native** that uses the Google Computer Vision API to detect whether an object is recyclable.

Kellermann Foundation

Project Manager

Jan – May 2018

- Advised technicians in Uganda on how to integrate their local database to a newly developed government database framework.
- Analyzed **Java** and **SQL** source code and presented final report on findings.

EXTRACURRICULARS

ACM Director of Education

Empower Through Code volunteer

Student-run magazine (A.M.P.) writer/contributor

UTD National Merit Ambassador