Mustafa Sadriwala

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# Technical SkillS

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| --- | --- |
| 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 Richardson, TX

Bachelor of Computer Science Aug 2017 – May 2021

*Minor: Literature*

Collegium V Interdisciplinary Honors, CS2 Honors Program

Overall GPA: 4.0/4.0

# Work Experience

J.P. Morgan & Chase Plano, TX

Software Engineering Intern 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. Plano, TX

Front-end Developer 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 Bedford, TX

Tutor/Associate 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 UTD

Student Researcher 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 UTD

Student Researcher 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 UTD

Clark Summer Researcher 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 VisionAPI 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**