Mustafa Sadriwala

A Fast-Learning, Third-Year CS Honors Student

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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

WORK EXPERIENCE

J.P. Morgan & Chase — JUNE 2019 – AUGUST 2019
Software Engineering Intern

Worked as a **Full-Stack Developer** to deliver an end-to-end web application to create test data. Developed data generator 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 flow and application functionality. Also worked with authentication protocols to enable deployment to internal cloud environment.

Plano Intelligence Inc. — MAY 2018 – SEPTEMBER 2018
Front-end Developer

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** connection.

Kumon Math and Reading Center — MAY 2016 – MAY 2017
Associate/Tutor

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 — AUGUST 2018 – PRESENT
UTD Student Researcher

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

Advanced Polymer Research Lab — AUGUST 2017 – MAY 2018
UTD Student Researcher

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 — JUNE 2017 – AUGUST 2017
UTD Clark Summer Researcher

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.

EDUCATION

2017 – MAY 2021	**B.S. Computer Science** COMPUTING SCHOLARS, COLLEGIUM V **GPA: 4.0** *University of Texas at Dallas*

TECHNICAL PROJECTS

Comet Marketing — AUGUST 2018 – PRESENT
Director of Web Design

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

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

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

EarthxHack '18
Front-end Developer

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 — JANUARY – MAY 2018
Project Manager

Advised technicians in Uganda on how to integrate local database to newly developed government database framework. Analyzed **Java** and SQL source code. Delegated tasks equitably to efficiently finish 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