

# Mustafa Sadriwala

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## TECHNICAL SKILLS

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

## EDUCATION

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<b>B.S. in Computer Science – University of Texas at Dallas</b>	Aug 2017 – May 2021
Collegium V Interdisciplinary Honors, CS^2 Honors Program	GPA: <b>4.0/4.0</b>

## WORK EXPERIENCE

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<b>Meta, Software Engineer</b>	Aug 2021 – Present
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- Working as a **Product Engineer** on Instagram Supervision to create performant, policy-compliant, and privacy-aware features for parents to help support their teenager's journey on Instagram.
- Use **React, JavaScript, PHP/Hack**, and **Python** day-to-day to own and deliver full-stack features.
- Drove the ideation, design, and led engineering for multiple projects up until global launch followed by analysis of experimentation and learnings share-out to continue iterating on hypotheses.
- Steer overall product and technical direction by prototyping new solutions, features, and migrations and proposing required engineering bandwidth and business value.
- Communicate with partner platform teams to build client-needed APIs and new infrastructural requirements.
- Load-balance team bandwidth by helping prioritize and distribute projects as-per skillset and strengths.

<b>Facebook, Software Engineering Intern</b>	May – Aug 2020
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- Worked as a **Product Engineer** on the Messenger Kids Parent Experience Team to deliver redesigns of legacy screens inside the FB app and bring necessary functionality for parental controls to the FB website.
- Used **React Native** with **Relay, Flow**, and **GraphQL** to create a consistent cross-platform user experience and created modular components, functions, and custom **React Hooks** to lay the groundwork for future iterations.
- Ran experimentation for both projects. Helped track growth metrics and create hypotheses for testing.
- Communicated cross-functionally with design, product, and content to align with best engineering practices.
- Wrote project tracking documents to help prioritize and adjust timelines as needed.
- Organized documents to track project progress, signal timeline concerns, and onboard external QA group.

<b>J.P. Morgan &amp; Chase, Software Engineering Intern</b>	Jun – Aug 2019
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- Worked as a **Full-Stack Developer** to deliver an end-to-end **web application** to mock data generation – that aligned with new data standards – as a customizable **Kafka** producer for internal cloud applications.
- Developed input forms and validation techniques for customized data generation in **React** front-end.
- Created a modular middle-end **REST API** in **Java** for scheduled and random data generation.
- Wrote documentation for middle-end API with Swagger to ensure consistent future usage.
- Helped architect endpoints and internal data models to enable an efficient **MVC architecture**.
- Researched and integrated **authentication protocols** to enable deployment to internal cloud environment.
- Planned out bi-weekly goals and priorities in an **agile** workflow and engaged in daily stand-ups with the team.

## **Plano Intelligence Inc., Front-end Developer**

May – Sep 2018

- Created a proof-of-concept **Android** app for a local AI threat-detection start-up based out of Plano, TX.
- Focused on front-end decision-making, troubleshooting, and development. Coordinated our front-end team to split and prioritize tasks to both meet deadlines and work around external commitments.
- Built, tested, and designed the application with **Android Studio** and **Java**.
- Leveraged **Firebase** and helped architect the schema and data model for a notifications database. Communicated with the back-end team to ensure consistency of data model across platforms.
- Delivered real-time **WebSocket** connectivity inside the Android app for chat bot messages and notifications.

## **Kellermann Foundation, Project Manager**

Jan – May 2018

- Supported a non-profit through the Engineering Projects in Community Service (EPICS) program at UTD.
- Advised technicians in Uganda on how to integrate their local database to a newly developed government database framework by analyzing Java and SQL source.
- Wrote and presented a final report on source code analysis and legacy system review.
- Created timelines and initiated weekly virtual meetings with technicians to stay aligned on project goals.

## **RELEVANT PROJECTS**

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### **UTD ECS Events, Full-Stack Developer**

Jan 2021 – May 2021

- Designed and developed an open-source event management platform for student organizations.
- Led front-end team by creating development environments, establishing code best practices, and distributing equal scope per experience level.
- Implemented front-end in **React**, back-end with C# and **Firebase**, and deployed using Azure and Firebase.
- Established extensive documentation for future developers, organizations, and students.
- Created distinct environments for production and development, as well as a continuous deployment pipeline.

### **UTD Comet Marketing, Director of Web Design**

Aug 2018 – Sept 2020

- Created and maintained Comet Marketing's website ([www.utdcometmarketing.com](http://www.utdcometmarketing.com)) from scratch with one peer using **React** and **Next.js** 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 using **Vercel**.

### **AI Pacman Capture The Flag, Academic Project**

March – May 2020

- Compete in a classroom tournament of capture the flag with AI agents and won first place in both the pre-final and final tournaments going undefeated both times.
- Implemented a modular, decision-making hierarchy based on the concept of reflex agents alongside theoretical concepts of Tabu search, utility functions, and condition-action rules.
- Designed heuristics to determine regions of dense points, the best entrances onto the opponent's side, and the best path to a desired location that would maximize points collected.

## **EXTRACURRICULARS**

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**UTD Girls Who Code Logistics Chair:** Helping to establish a local chapter of Girls Who Code College Loops.

**ACM UTD Director of Education:** Coordinated a team of officers to manage a mentorship program for CS underclassmen at UTD and host various workshops on topics like interview prep, intern fair tips, and web development. Supported the team in achieving their goals and setting priorities for marketing and event planning.

**HackUTD Industry Coordinator:** Served as the point-of-contact for several company sponsors and their recruiting team. Helped to run and facilitate a large-scale event with 600+ attendees with food and events.

**Empower Through Code volunteer:** Mentored students at local middle schools to foster interest CS and engineering. Created coursework to teach Python programming and engage students with logic puzzles.