

# Tarun Rana

Dallas, Texas | 312-536-2293 | [trana51997@gmail.com](mailto:trana51997@gmail.com) | [GitHub](#) | [LinkedIn](#) | [Portfolio](#)

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## SUMMARY:

As a highly motivated and experienced Software Engineer, I bring a wealth of expertise in the field of software development and a passion for continuously expanding my skillset. My strong aptitude for learning new technologies enables me to deliver innovative and effective solutions to meet the ever-changing demands of the industry. I am committed to utilizing my technical proficiency and creativity to bring value to any project I am involved in.

## EDUCATION:

### Master of Science in Computer Science

The University of Texas at Arlington, Texas, US

**Aug 2021 – May 2023**

GPA: 3.75 / 4.0

### Bachelor of Engineering in Computer Engineering

University of Mumbai, Mumbai, IN

**Aug 2014 – May 2018**

GPA: 3.5 / 4.0

## TECHNICAL SKILLS:

**Programming and tools:** JavaScript, Python, PHP, Java, C++, Git, GitHub, Azure, Postman, Bash, TensorFlow, and Jupyter Notebook

**Frameworks:** Bootstrap, React.js, Flask (Jinja), Node.js (Express), and Laravel.

**Web and Database:** HTML5, CSS3, SASS, MongoDB, PhpMyAdmin, and Microsoft SQL server.

**Relevant Courses:** Distributed Systems, Computer Networks, Software Engineering analysis, maintenance and testing, Machine Learning, Data Structures and Algorithms, System Design, Data Mining, and Neural Networks.

## EXPERIENCE:

**Web Developer – Mindise Pvt Ltd.** Mumbai, India

**Apr 2020 – May 2021**

**Kings United, Aditi Tracking – (HTML5, SASS, JavaScript, Node.js, MongoDB)**

- Built a Dashboard so that admins could apply basic CRUD operations on the database.
- Worked closely with the client to generate a wireframe and initial prototype to refine user interface behaviors.
- Designed a responsive website using media queries for the front-end site.
- Developed efficient RESTful APIs serving dynamic data to the front end, handling over 1000 concurrent users.
- Implemented authentication using the JWT package for providing a safe route for logged-in users.
- A connection between MongoDB and Node.js (express) was created with the help of the mongoose library.

## PROJECTS:

**CollegePlace.** Team Project, UT Arlington – (CSS3, React.js, Laravel, MySQL, WordPress, RESTful API)

**Sep 2022 – Dec 2022**

- Lead a team of 5 through weekly meetings and presentations to structure the client-side-rendered website and figure out the project's next steps.
- Designed a website that focused on adding students who could create their clubs, and blogs, and do real-time chat.
- We integrated WordPress into our application which helped student create their blogs.
- Developed RESTful API using Laravel and handled and stored data with the help of phpMyAdmin.

**Transfer 2022.** Independent, UT Arlington – (Tweepy, Twitter API, NLP, Flask)

**Jun 2022 – Aug 2022**

- A web app was designed to show the latest tweets of famous soccer journalists, using NLP to compare and rate the likelihood of transfer news.
- Integrated Twitter API with our application to generate the latest transfer tweets.
- Implemented using python framework Flask. Used tweepy to collect the data from Twitter.
- Achieved 93% accuracy using the LSTM model as compared to regular text blob and Vader.

**QueryMeter.** Independent, UT Arlington – (Azure Cloud services, SQL, Database, Caching)

**Jan 2022 – May 2022**

- The client needed a full-stack web app to manage and fetch data from diverse datasets.
- Develop and deploy a full-stack web application.
- Created and deployed a full-stack web app using Flask as the back-end and HTML, CSS, and JavaScript as the front-end technologies, deploying on Microsoft Azure with Azure SQL database services.
- The web app effectively managed diverse datasets and provided efficient query fetching with a 68% hit ratio through Redis caching optimization.

**SocketProg.** Independent, UT Arlington – (Python, Multi-threading)

**Sep 2021 – Dec 2021**

- Developed a file system using socket programming and multithreading that allows users to connect to each other's file spaces and perform CRUD operations.

## ACTIVITY AND CERTIFICATION:

- Node.js, Express, MongoDB: The Complete Bootcamp 2021 – Udemy Certification.
- React – The complete guide (incl. Hooks, React-Router, Redux) – Udemy Certification.
- Published a blog in which react hooks implementation was explained.
- Represented Maharashtra U19 in the Nationals Football Tournament.