TARUN RANA

trana51997@gmail.com | 3125362293 | Dallas, Texas |

linkedin.com/in/tarunrana05/ | https://tarun-rana-portfolio.vercel.app/

EDUCATION

Master's in Science, *Computer Science*   *Aug 2021 – May 2023*
The University of Texas at Arlington, US   *GPA: 3.75*
Bachelor's in Engineering, *Computer Engineering*   *Aug 2014 – May 2018*
The University of Mumbai, IN   *GPA: 3.50*

SKILLS

Programming: JavaScript, TypeScript, Python, R, PHP, C++, and C#.
Frameworks, and tools: React.js, Nextjs, Prisma, Flask (Jinja), Node.js (Express), .NETWebAPI, Mongoose, Laravel, Git, GitHub, AWS, Azure, Vercel, Netlify, Thunder Client, Postman, Swagger, Linux, Bash, NumPy, Pandas, TensorFlow, Keras, Google Colab, Jupyter Notebook, VS Code, Visual Studio 2022, and Azure data studio.
Web and Database: Bootstrap, HTML5, CSS3, SASS, Styled Components, Tailwind CSS, MongoDB, PhpMyAdmin, XAMPP, Postgres SQL, and Microsoft SQL server.

EXPERIENCE

Full Stack Developer, **Mindise Pvt Ltd**   *Apr 2020 – May 2021*
Notable Projects: Kings United & Aditi Tracking *(HTML5, SASS, JavaScript, Node.js, MongoDB, Git)*
- Collaborated with clients to create wireframes and prototypes, refining user interface behaviors, and incorporating feedback after each sprint, resulting in a 35% decrease in front-end development time.
- Developed and executed an intuitive and user-friendly interface for the company's flagship product, utilizing a technology stack that included React, React-Router, and Redux Toolkit for efficient global state management. This initiative led to a notable 40% enhancement in user engagement levels.
- Designed and deployed a secure authentication system utilizing Node.js(express) API and JWT package, reducing login errors by 60%.
- Constructed a scalable backend architecture that boosted server response time by 75%, enabling the seamless handling of up to 1000 requests per second, with data sourced from MongoDB using Mongoose as the ODM.

University of Texas at Arlington   *Aug 2021 – May 2023*
Multi-layer Neural Network *(Python, NumPy, TensorFlow, Google Colab)*
- Engineered a multi-layer neural network with TensorFlow and NumPy libraries in Python for image classification from the MNIST dataset; optimized inputted activation and loss functions to achieve 98.73% accuracy.
- Integrated Convolutional Neural Networks and Recurrent Neural Networks in image classification tasks; amplified accuracy by 5% on average.
CollegePlace *(CSS3, React.js, Laravel, Eloquent(ORM), MySQL, WordPress, RESTful API, UTA Cloud)*
- Successfully managed and supervised a team of 5 developers to plan and execute the development of a client-side rendered website, completing its completion within the deadline.
- Executed React.js and context API best practices to develop a website that allowed students to create their own clubs and blogs, increasing user engagement by 45%.
- Developed RESTful API using Laravel framework, employing Eloquent as ORM and seamlessly integrating phpMyAdmin for streamlined data management and storage, resulting in a notable 30% enhancement in server performance.

PROJECTS

QueryMeter *(Azure Cloud services, SQL, Database, Caching)*
- Developed a comprehensive web application using Flask to efficiently handle and fetch data from various datasets, resulting in a 50% reduction in data processing time.
- Deployed the full-stack web app on Microsoft Azure utilizing Azure SQL database services, improving the application's scalability and reliability by 40%.
- Optimized the web app's query fetching efficiency to 68% through Redis caching optimization, making it highly effective in managing diverse datasets.
Transfer 2022 *(Tweepy, Twitter API, NLP, Flask)*
- Integrated Twitter API with our application to generate the latest transfer tweets, fetching over 10,000 tweets per day.
- Planned and implemented a user-friendly interface using the Python framework Flask for easy app navigation, resulting in a 25% increase in user experience.
- Utilized the LSTM model to analyze and rate transfer news with 93% accuracy compared to regular text blob and Vader, increasing user credibility.
Portfolio *(Typescript, Tailwind CSS, Next.js, Git, Vercel)*
- Developed a visually stunning personal portfolio website using TypeScript, Next.js, Framer Motion, Context API, and Tailwind CSS, boosting user engagement by 40%.
- Implemented media queries to create a responsive design across all devices, resulting in a 50% increase in mobile users.
- Website has been deployed on Vercel using Continuous Deployment (CD) with Git as the version control system.