UTKARSH SINGH ⌨ 🌐 in

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EDUCATION

University of Texas at Arlington   **Arlington, TX**
GPA: 3.33 / 4.0
Bachelor of Science in Software Engineering   *August 2019 - May 2023*
Maverick Academic Scholar, Leadership Honors Program
Related Coursework: Software Testing, Software Design Patterns**,** Information Systems, Software Project Management, SQL and NoSQL Database systems, Theoretical CS, Data Structures and Algorithms, Object Oriented Software Engineering, Programming Languages, Linear Algebra, Assembly Language, Probability and Statistics.

SKILLS & INTERESTS

- **Languages:** Python3, ES6 JavaScript, C#, C++, C, Java, HTML5, CSS3, TypeScript, MATLAB, Dart.
- **Web Technologies & Frameworks:** React, Redux, Node.js, REST APIs, SOAP APIs, Express.js, jQuery, Django, Flask, Pandas, Matplotlib, NumPy, PyTorch, Scikit-learn, OpenCV, BeautifulSoup4, Flutter, ASP.NET MVC Framework, Razor Pages.
- **Tools:** Git, Jupyter Notebook, Anaconda, Docker, Wireshark, Selenium, Jenkins, SonarQube, JMeter, Jest, Netlify, Heroku, AWS S3, AWS EC2, JUnit, Bitbucket, Jira, Elasticsearch, Logstash, Kibana, Android Studio, Unity 3D, Visual Studio, Postman.
- **Databases:** MongoDB, Firebase, MYSQL, SQLite3, Microsoft SQL, PostgreSQL.
- **Software Testing:** Static Code Analysis**,** Combinatorial, UAT, Control Flow, Data Flow, Predicate, Mutation, Regression, Load.

WORK EXPERIENCE

Office of Information Technology, UTA   *December 2021 – Present*
Student Encryption Assistant
- Improved Security by **34%** on university systems by integrating software scripts with the device.
- Automated the bug report system to create boost productivity by **50%** amongst personnel.
- Maintained and accelerated service queries by **8%** through a ticketing system called ServiceNow.

Stealth Mode Fintech Startup   *June 2021 – August 2021*
Software Engineer Intern
- Automated web crawlers and scripts in an agile backend development team to read, clean and handle data exceptions from social media pages using **Python3, Selenium** and storing the data in **PostgreSQL and MongoDB Databases**.
- Implemented the automation script for web crawlers with Dev-ops team and deployed the script **Google Cloud Platform VM** that increased the efficiency of data collection by **67%.**
- Built a keyword based and semantic based search engine using **Flask, Hugging Face's BERT NLP model**, **Elasticsearch, and Mongo-Connector**. The search engine was loading on client side saving the server load by **12%.**

Rocket Flyer Technology Pvt Ltd   *January 2021 – May 2021*
Software Engineer Intern
- Migrated the company web application from Java Web Stack to JavaScript Web Stack using CI/CD methodologies resulted in faster speed of the web application by **28%** and reduced the load on server by **46%.**
- Established a REST API for authentication and integration with 3rd Party platforms.

University of Texas at Arlington   *January 2020 – December 2020*
Supplemental Instructions Leader and CRLA Certified Advanced *Tutor*
- Orchestrated group study sessions for students applying VARK learning approaches and interaction techniques virtually via Microsoft Teams. Students who attended the session averaged the grade 80% or above in the course.
- Facilitated one-on-one tutoring sessions to assist peers by providing information on core Computer Science courses such as Object-Oriented Programming. Students who attended more than 3 sessions averaged 70% or greater in the course.

ACTIVITIES & PROJECTS

CARZ 3330 *(Project Link)*
React.js, Redux, Reducers, Hooks, JavaScript, Node.js, Express.js, Axios, Cors, MySQL, HTML5, Dynamic CSS (Styled-Components v4)
- Developed a full-stack web application that enables users to rent a car and manage bookings. Application also allows vendors to manage the car inventory and request maintenance on over 500 vehicles.

STATIFY *(Project Link)*
Flask, Pandas, Spotipy (Spotify API), Pillow HTML5, CSS3, JS
- Launched a web application that analyzes Spotify account statistics by fetching top artists, songs, and genres using Spotify API.
- Generated recommendations based on the songs and artists of the user.
- Visualized the attributes, tempo, duration of the tracks, and devised a word chart of top 100 songs of the user.

COVID-19 Tracker Application (*Github*)
Flutter, Firebase, COVID19 API
- Collaborated in a cross platform COVID-19 application for both android and iOS devices that displays the global and nation-wide statistics of SARS-CoV-2 virus.
- Integrated additional features such as identifying the symptoms and suggesting preventive measures, donation links to verified relief funds, and SOS calling options to the emergency services.