UTKARSH SINGH ⭘ 🌐 in

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EDUCATION

University of Texas at Arlington **Arlington, TX**
Bachelor of Science in Software Engineering *August 2019 - May 2023*
Leadership: *Maverick Academic Scholar, Freshmen Orientation Leader, Supplemental Instructions Leader.*
Relevant Coursework: Data Structures and Algorithms, SQL & NoSQL Database systems, Software Design Patterns, Object Oriented Software Engineering, Software Testing.

WORK EXPERIENCE

Data Glacier *June 2022 – August 2022*
Data Analyst Intern
- Optimized the **PySpark** and **Azure Data Factory** pipeline in a team of 5 following Agile software methodologies using **DataBricks**, and by moving from RDD to Data Frames and Spark optimization techniques which reduced loading time by 15%**.**
- Analyzed the data pipeline to provide actionable insights into customer acquisition, operational efficiency by 23%, optimized Extraction, Transformation, and Loading (ETL) of data and other key business performance metrics using **Azure Synapse**, **Pandas, and PyTorch.**

Stealth Mode Fintech Startup *June 2021 – August 2021*
Backend Engineer Intern
- Automated web crawlers and scripts in an agile backend development team of 3 in SCRUM sprints of 2 weeks 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 Technologies *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 – May 2022*
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.

PROJECTS

STATIFY *(https://statify-tool.herokuapp.com/)*
Flask, Pandas, Spotipy (Spotify API), Pillow, HTML5, CSS3, JavaScript
- Launched a web application that analyzes Spotify account statistics by fetching top artists, songs, and genres using Spotify API.
- Generated 70-80% accurate music recommendations based on the liked 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.

CARZ 3330 *(https://carz3330.netlify.app/)*
React.js, Redux, Node.js, Express.js, Axios, MySQL, HTML5, Dynamic CSS (Styled-Components v4)
- Developed a full-stack web application that enables users to rent a car and manage bookings.
- Established an admin side page to manage the car inventory and request maintenance on over 500 vehicles.

COVID-19 Tracker Application (*GitHub*)
Flutter, Firebase, COVID19 API
- Collaborated in a cross-platform android and iOS application that displays the global and nation-wide statistics of COVID-19 cases.
- 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.

SKILLS

- **Languages:** Python3, JavaScript, C#, Java, Dart.
- **Web Technologies & Databases:** React, Redux, Node.js, Express.js, Flask, Flutter, ASP.NET MVC Framework, Razor Pages, MongoDB, Firebase, MySQL, DynamoDB, Aurora DB, PyTorch, Pandas, PySpark, Hadoop.
- **Tools:** AWS Cloud, Azure Synapse, Git, Jupyter Notebook, Wireshark, Selenium, Jenkins, Jest, Heroku, JUnit, Elasticsearch, Logstash, Kibana, Android Studio, Unity 3D, Postman.

CERTIFICATIONS & AWARDS

- AWS Certified Cloud Practitioner (Certificate Link)