

UTKARSH SINGH

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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 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 & Tools:** Node.js, RESTful APIs, SOAP APIs, Express.js, React, Redux, jQuery, Django, Flask, Pandas, Matplotlib, NumPy, OpenCV, BeautifulSoup4, Docker, Android Studio, Flutter, ASP.NET, Razor Pages, MVC Framework, Git, Jupyter Notebook, Wireshark, Unity Studio, Selenium, SonarQube.
- **Databases:** MongoDB, Firebase, MySQL, SQLite3, Microsoft SQL, PostgreSQL.
- **Software Testing:** Combinatorial, JUnit, 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

- Developed 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 AND 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.

COVID-19 Tracker Application ([GitHub](#))

Flutter, Firebase, COVID19 API

- Collaborated in a cross platform COVID-19 guide for both android and iOS devices that displays the global and nation-wide statistics of SARS-CoV-2 virus.
- The application has 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.

CRYPTOMANIA ([Project Link](#))

React, Node.js, ES6 JavaScript, HTML5, Dynamic CSS (Styled-Components v4), CryptoCompare API, HighCharts API

- Implemented a GitHub hosted data visualization cryptocurrency web application that retrieves data from real-time cryptocurrency pricing API and made a time-series analysis graph for the selected coins.