**EDWIN SAHIL SAMUEL KATHI**

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**EDUCATION**

**Texas Tech University,** *M.S in computer and information sciences* | Lubbock, TX Jan 2022 - May 2023

* **GPA:** 3.2
* **Relevant Coursework:** AdvancedData Structures and Algorithms, Reinforcement learning, Database, Application Development, Network Security, Computer Organization and Architecture, Neural Networks, Operating Systems, Software Design and Development

**JNTU Kakinada,** *B.S in Computer Science* | Andhra Pradesh, IN Aug 2017 - July 2021

* **GPA:** 3.2
* **Relevant Coursework:** High level Programming, Cloud Computing, Data Structures and Algorithms, Software Engineering, Formal Language and Automata Theory, Logistics for Computer Scientists

**WORK EXPERIENCE**

**Software Engineer - SAGE IT,** Frisco, Tx Jul 2023- Present

* Enhanced cross-functional team communication by providing clear and concise updates on project progress during daily stand-up meetings
* Contributed significantly to user interface development using HTML, CSS, and advanced JavaScript frameworks like React, prioritizing responsive design for optimal cross-device user experiences.
* Collaborated closely with the backend team to seamlessly integrate RESTful APIs into the overarching system architecture, ensuring robust design principles and efficient data exchange mechanisms.
* Acquired expertise in API security and authentication practices, actively contributing to the development and maintenance of secure APIs within the system ecosystem.
* Played a key role in optimizing database performance, implementing advanced querying techniques, and addressing fundamental database-related issues to enhance overall system efficiency.
* Successfully containerized a monolithic application using Docker, breaking it down into modular microservices to achieve scalability and maintainability.
* Demonstrated flexibility by swiftly transitioning from monolithic to microservices architecture, contributing to the team's responsiveness to changing project needs

**Graduate Assistant - Texas Tech University,** Lubbock, Tx Feb 2022-May 2023

* Collaborated with faculty to design the Advanced Software Development course incorporating real-world object-oriented design principles and coding challenges.
* Developed interactive learning materials, including comprehensive code walkthroughs and tutorial videos, to assist students in mastering complex coding concepts
* Introduced Agile methodologies in coding projects within coursework, resulting in a 20% reduction in project completion times and improved adaptability to changing requirements.
* Integrated Python and C# coding exercises into academic projects, enhancing students' exposure to High Level programming paradigms.
* Guided students in developing database-backed web applications and technical design emphasizing the integration of relational databases with dynamic web content.

**PROJECTS**

* **Factfinder RL: Unmasking Deceptive News with Reinforcement Learning -** Conducted a comparative analysis of reinforcement learning techniques (LSTM, BiLSTM, BERT) for fake news detection, achieving a **15% increase in accuracy**. Which helped in detecting the fake news circulating around the social media
* **Human Activity Recognition –** Developed gesture recognition program using machine learning algorithms, which involves three stages: object detection, object recognition, and analyzing sequential gestures. Developed two versions of human activity recognition using the OpenCV library and Python.
* **Overhauling the Online Sales System for Lubbock Supermarket -** Developed a user-friendly supermarket website over private cloud contributing to a 20% boost in online sales by improving product catalogues, shopping carts, and secure payment processing.

**SKILLS:**

Python, Java, C, C++, C#, Data Structures and Algorithms, PySpark, React, JavaScript, HTML, CSS, Node, SQL, MySQL, PostgreSQL, Oracle, MongoDB, Pandas, NumPy, SciPy, TensorFlow, Keras, Sci-kit-learn, Matplotlib, PyTorch, Boto3, Rest API Development, AWS, Databricks, Docker, Kubernetes, Git, GitHub, Bash, Agile methodology, RESTful APIs, UI/UX, Angular.