**Pavan Sai Prasanth Sabnaveesu**

**832 274-8181|** [**sabnaveesuprasanth@gmailcom**](mailto:sabnaveesuprasanth@gmail.com)

**Professional Summary**

Results-driven software developer with 3+ years of experience in designing and optimizing scalable distributed systems, leveraging Python, Django, and modern data frameworks like Kafka, Apache Airflow, and AWS. Skilled in implementing robust ETL pipelines, database optimization, and end-to-end feature development to deliver high-performance solutions in fast-paced environments

**Education**

*Texas A&M University* Master of Science, Computer Science  ***CGPA: 3.83***

**Technical Skills**

Programming & Databases : Python, Java, C, C++, SQL

Web Development : HTML, CSS, JavaScript, Django, REST API, Flask, Spring Boot, React JS

Databases : MySQL, PostgreSQL, MongoDB, AWS Neptune

Cloud, DevOps & distributed : AWS, Docker, Kubernetes, CI/CD (Jenkins),Git, Apache Kafka, Apache Spark, Airflow

**Work Experience**

**Graduate Assistant, Texas A&M University *Feb 2023 – Dec 2024***

* Designed and implemented distributed storage systems and query systems using PostgreSQL, optimizing SQL queries for improved query response times by 40%
* Developed Python and Django applications, integrating third-party services and REST APIs to enhance system functionality, scalability, and performance
* Spearheaded comprehensive feature development lifecycle, encompassing design, rigorous testing, and seamless deployment for various applications
* Optimized Python scripts for computational efficiency in high-load distributed systems using tools like NumPy, Pandas, and multiprocessing libraries

**Software Developer, NEXT ROW Private Limited *July 2021 – Dec 2022***

* Designed and implemented distributed systems for sensor data analysis, leveraging Kafka and TensorFlow to achieve 95% fault detection accuracy
* Optimized data retrieval processes by implementing B+ Tree indexing, enabling efficient range queries and improving disk storage utilization
* Led the design and implementation of scalable ETL pipelines using Python and Apache Airflow, improving performance by 30% and ensuring efficient processing of large datasets
* Automated deployment workflows using Python scripts, Jenkins, and GitHub Actions, enhancing efficiency, reducing manual intervention, and ensuring consistency
* Engineered Python-based solutions for managing API throttling and rate limiting, ensuring robust performance and scalability in high-traffic environments.
* Implemented a data lake architecture using AWS S3 and Delta Lake to handle large-scale data storage and enable seamless access for analytics

**Software Developer, Meslova Systems Private Limited *Sept 2018 – June 2021***

* Implemented a robust distributed logging and monitoring framework for Python applications using the ELK stack, centralizing logs for real-time error traceability and system diagnostics
* Scripted efficient Python-based scripts to automate system monitoring and alerting processes
* Participated in agile practices, developing and enhancing features for production-ready systems while collaborating with cross-functional teams
* Ensured the delivery of high-quality products in fast-paced environments, contributing to feature development, testing, and integration of new features into production systems
* Leveraged NoSQL databases like MongoDB to optimize data storage and retrieval, improving application efficiency and response time
* Streamlined CI/CD pipelines using Jenkins and Docker, optimizing deployment processes and enhancing continuous performance improvement of machine learning applications
* Created unit tests for backend code with Python’s Pytest, ensuring robust application quality