

SYED A. NAQVI

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EDUCATION

University of Texas at Dallas | BS Computer Science 2023 - 2025

University of Texas at Dallas | BS Neuroscience 2020 - 2025

EXPERIENCE

Software Engineer Aug 2025 - Present
SAS institute Cary, NC

- Contributed to the architectural design of an ML-based system for dynamically scaling messaging connections by selecting key input metrics and optimizing for lightweight deployment; reduced model size from 40KB to <5KB via quantization and component reduction.
- Managed CI/CD-driven releases and ongoing maintenance of core platform libraries and base images used across 30+ services, ensuring stability, backward compatibility, patching and consistent service behavior.
- Upgraded a core message broker to automatically compress large (>4MB) JSON payloads, reducing bandwidth usage by ~30% and improving reliability of inter-service communication.

Software Engineer Intern May 2024 - Aug 2025
SAS institute Cary, NC

- Led a Team of 5 interns to develop an internal tool for the Research and Development division, utilizing Python, CQM data, PromQL, Bash, Linux, and WSL.
- Expanded KPI estimation capabilities from a single division to seven additional divisions, improving cross-departmental insights and decision-making.

PROJECTS

Calcium Oscillation quantification algorithm.

- Created a modified signal processing algorithm to decode oscillation in a biological system using Noise Extraction, Peak Detection, and Fast Fourier transformations.
- Selected as 1 of 15 undergraduate researchers nationwide to present at a national conference [Preprint released](#)

Multi Electrode Array analysis

- Developed a full-stack application to process and analyze data from up to 1500 electrodes simultaneously.
- Automated a robust data pipelines using Python (NumPy, pandas) and integrated visualization workflows with Excel and GraphPad.

AutoSync Subtitles

- Developed a Chrome extension to inject real-time subtitles into any webpage <video> element, enabling captioning on unsupported platforms.
- Achieved low-latency synchronization with <4% CPU overhead, ensuring minimal impact on video playback performance.

TECHNICAL SKILLS

Programming Languages: Go, Python, Java, C/C++, Swift

Tools: Git, Docker, Kubernetes, Jenkins, GitHub Actions, Harbor, CI/CD Pipelines, Prometheus

Technologies: gRPC, Protocol Buffers, REST APIs, RabbitMQ, Redis