Syed Hassan Ahmed

 github.com/hassansyed4 linkedin.com/in/syed4 ahme3951@stthomas.edu +1 (763) 9003976
 Portfolio - Syed Hassan Ahmed * 2305 Quinwood LN N, Plymouth, MN 55441, USA

Summary

Working as a Data Engineer/Scientist at the University of St. Thomas, Data Science and AI graduate student with prior experience as a Senior Full-Stack Engineer and Oracle SQL Certified, combining strong engineering fundamentals with data-driven problem solving. Possesses 5 years of experience building agile, scalable solutions using SDLC. Highly adaptable, collaborative, and motivated to contribute to impactful projects while growing within a high-performing team. Brings the ability to learn quickly & deliver reliable solutions.

Technical Skills

- **Programming Languages:** Proficient (Python, JavaScript, SQL, Java, PowerShell, Shell), Familiar (Typescript)
- **Desktop Support & IT Operations:** Desktop Support, Incident Resolution, System Deployment, Software Installation, Technical Troubleshooting, Monitoring Solutions, Troubleshoot and Resolve Technical Issues
- **Networking Fundamentals:** TCP/IP, VPN, DNS, firewall concepts, network troubleshooting
- **Frontend Technologies:** HTML, CSS, React.js
- **Backend & Web Frameworks:** Node.js, Flask, REST APIs
- **Databases:** Postgresql, Mysql, SQL
- **Data Science, AI & ML:** Pandas, NumPy, Deep Learning, Neural Networks, Decision Trees, NLP, and LLM
- **Web Application:** UI and CI/CD Pipelines, Web services, Rest API's Development
- **AWS Services & Data Visualization Tools:** S3, Lambda, EC2, Tableau, Power BI
- **Data Engineering & Systems:** Agile Softwar, Jira, Web services, SDLC, Azure DevOps
- **Version Control & DevOps Tools:** Git, GitLab, GitHub, GitHub Desktop

Experience

- **Data Engineer & Scientist (Internship) – STELAR, University of St. Thomas** Aug 2024 – Present
  1.6 year of experience (current)

  - Performed application development, computer engineering, computer science, data analysis, and reporting on large research datasets (100,000+ records) to support academic insights.
  - Developed automated data design patterns processing workflows using Python (Pandas, NumPy, OpenPyxl) to clean, classify, and integrate data into structured Excel reports.
  - Applied basic NLP techniques (tokenization, keyword extraction) following sound engineering practices to improve data categorization accuracy and communicate results to stakeholders.
  - Designed Augmented Reality (AR) mobile applications using Unity and C#, focusing on software engineering principles, image recognition workflows, system integration, and performance testing.

- **Senior Software Engineer - Nagarro** Oct 2020 – Aug 2024
  4 years of professional experience

  - Designed, developed, and supported ServiceNow RESTful integrations and applications in a regulated public-sector environment, collaborating with stakeholders to gather technical & solutions requirements.
  - Built, optimized, and maintained CI/CD Operations, workflows and data-driven features using ServiceNow and JavaScript to improve system reliability, reporting, and information handling.
  - Led enhancements, performed code reviews, and supported production deployments, ensuring adherence to software engineering standards and OAuth 2.0 based token authentication.

- **Desktop Support Intern - Nagarro** Jun 2020 – Sep 2020
  3-month internship, successfully converted to full-time role

  - Provided onsite and remote desktop support, improving user productivity and reducing technical disruptions by 30%.

- Troubleshot hardware, software, and network issues, reducing issue resolution time by 35% and improving system reliability.
- Assisted with system deployments and configurations, improving environment setup efficiency by 25%.
- Documented incidents and communicated solutions clearly, and improved support response efficiency.

Projects

- **Image Recognition System (AR Application)** (GitHub Link) Apr 2025 – Present
  - Developed and tested an AR mobile application using **Unity3D and C#**, focusing on mobile app development and preparing for future firmware development work while handling structured data.
  - Performed **beta testing** and basic performance analysis, documenting results in written reports.
  - Communicated findings clearly through documentation and presentations.

- **Ancient Pottery Research and Categorization** (GitHub Link) Jan 2025 – Oct 2026
  - Built Python-based data pipelines to clean, validate, and structure large datasets using Pandas/NumPy and SQL-backed storage.
  - Developed lightweight APIs (Flask) and integrated MongoDB/MySQL; prototyped ML/NLP workflows and early LLM concepts with emphasis on accuracy and reproducibility.

- **Data Transfer From PostgreSQL to PowerBi through Fast APIs** (GitHub Link) Jun 2025 – Jan 2026
  - Developed a secure analytics backend using **FastAPI** and **PostgreSQL**, exposing **REST APIs** to deliver governed procurement and production data to Power BI.
  - Implemented JWT-based authentication with time-parameterized REST endpoints, enabling secure, compliant data access without direct database exposure.
  - Containerized PostgreSQL using **Docker** to ensure scalable, reliable, and secure data integration.

- **Medical AI Chatbot (Academic Project), UST** (GitHub Link) Jan 2025 – May 2025
  - Developed a medical healthcare support chatbot using **Python and Flask**, focusing on digital communications, system reliability, software engineering and workflow efficiency.
  - Conducted functional testing of API integrations and model responses during the project development.
  - Documented best practices for secure API usage, data handling, and system access controls.

Education

- **University of St. Thomas, Saint Paul, USA** Aug 2024 – Dec 2026
  Masters in Data Science and AI (STEM Designated) | GPA: 4.0/4.0
- **Arya College of Engineering & IT, Jaipur, India** Sep 2016 – May 2020
  Bachelor of Technology in Computer Science and Engineering

Professional Skills

Caring and disciplined, with a strong commitment to problem-solving, teamwork, and mentoring. Proven collaboration across diverse teams, contributing to product requirements, talent acquisition, and quality standards. Clear written and verbal communication to explain technical ideas to non-technical stakeholders. Highly motivated, committed, and persistent, with critical thinking, constructive feedback, and a passion for learning. Adaptable in fast-paced environments, supporting system stability, troubleshooting, automation.

Achievements

- Earned the **Oracle Database SQL Certified Associate certification** (Feb 2026), demonstrating strong expertise in SQL and Oracle database fundamentals.
- Earned **Oracle Cloud Infrastructure Certified Data Science Professional certification** (Oct 2025), validating hands-on proficiency in cloud-based data science workflows and ML fundamentals.
- Selected as a STELAR Department Data Scientist for technical and research excellence on 100,000+ records.
- Awarded **2nd Place – Best Student Worker Contribution** at STELAR, ranking among top-performing student.