



Syed Hassan Ahmed

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 Portfolio - Syed Hassan Ahmed  2305 Quinwood LN N, Plymouth, MN 55441, USA

Summary

Data Science and AI graduate student with prior experience as a Senior FullStack Engineer, combining strong engineering fundamentals with data-driven problem solving. Experienced of 5 years in building agile, scalable solutions using SDLC, Rest API's and CI/CD technologies. Highly adaptable, collaborative, and motivated to contribute to impactful projects while growing within a high-performing team. Brings immediate value through a proven ability to learn quickly, deliver reliable solutions, and support teams with technical depth.

Technical Skills

- **Programming Languages:** Proficient (Python, JavaScript, SQL, C#), Familiar (Typescript, F#)
- **Frontend Technologies:** HTML, CSS, React.js
- **Backend & Web Frameworks:** Node.js, .Net, Next.js, Flask, REST APIs
- **Databases:** Postgresql, Mysql, SQL
- **Data Science, AI & ML:** Pandas, NumPy, Machine Learning, NLP, integrate LLM API Endpoints
- **Web Application:** UI and CI/CD Pipelines, Web services, Rest API's Development, Front-end Development
- **AR & Computer Vision:** Unity3D, OpenCV, ARCore
- **Web Services & Data Visualization Tools:** AWS (S3, Lambda, EC2), GCP, Azure, Tableau, Power BI
- **Data Engineering & Systems:** Agile Softwar, Jira, Playwright, Web services, SDLC, Azure DevOps
- **Development Tools:** Visual Studio Code, PyCharm, Jupyter Notebook
- **Version Control & DevOps Tools:** Git, GitLab, GitHub, GitHub Actions (CI/CD), GitHub Desktop
- **Microsoft Office Suite:** Word, Excel, PowerPoint, Access, Outlook, Visio, OneNote, Publisher

Experience

- **Data Scientist & Researcher (CPT Internship) – STELAR, University of St. Thomas** Aug 2024 – Present
1.6 year of experience (current)
 - Performed application development, computer hardware testing, 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 Developer - 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.
- **R&D Intern - Nagarro** Jun 2020 – Sep 2020
3-month internship, successfully converted to full-time role
 - Supported research and development initiatives by prototyping and testing web-based applications using JavaScript, HTML, and CSS, strengthening hands-on web development skills.

- Assisted in agile sprint planning, code reviews, solution design, evaluating new features and technical approaches through debugging, troubleshooting issues, source code management, and experimentation.
- Collaborated with team members to document findings, learn new technologies, apply functional programming concepts, and support software engineering driven R&D solution design.

Projects

- **Image Recognition System (AR Application)** (GitHub Link) Sep 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) Aug 2024 – Sep 2025
 - Built Python-based data pipelines to clean, validate, and structure large datasets using Pandas/NumPy.
 - Developed lightweight APIs (Flask) and integrated MongoDB/MySQL; prototyped ML/NLP workflows and early LLM concepts with emphasis on accuracy and reproducibility.
 - Collaborated with cross-functional teams to gather requirements and iterate quickly.
- **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 production data to Power BI.
 - Implemented JWT-based authentication with time-parameterized REST endpoints, enabling token-based access without direct database exposure.
 - Containerized PostgreSQL using **Docker** to ensure scalable, reliable, and secure data delivery.
- **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, mentoring, communicate effectively, and outreach; proven collaboration across diverse teams, contributing to product requirements, talent acquisition, quality standards, high decision quality, and strong time management skills; clear written and verbal communication for non-technical stakeholders; highly motivated, enthusiasm, persistent, adaptable in fast-paced environments, with critical thinking, constructive feedback, automation, and troubleshooting.

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.