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 ServiceNow Developer, combining strong engineering fundamentals with data-driven problem-solving. Experienced in building scalable solutions using Python, machine learning, and cloud 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:** Python, JavaScript, SQL; Familiar (Typescript, C#, F#)
- **Frontend Technologies:** HTML, CSS, React.js
- **Backend & Web Frameworks:** Flask, REST APIs
- **Databases:** Mysql, SQL, Postgres
- **Data Science, AI & ML:** Pandas, NumPy, Machine Learning, Deep Learning, NLP, LLMs
- **AR & Computer Vision:** Unity3D, OpenCV, ARCore, Vuforia
- **AWS Services & Data Visualization Tools:** S3, Lambda, EC2, Tableau, Power bi
- **Data Engineering & Systems:** Agile development, Web services, SDLC, System integration, JIRA
- **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, OneNote, Publisher

Experience

- **Data Scientist & Researcher (CPT Internship) – STELAR, University of St. Thomas**   Jan 2025 – Present
  1 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) applications using Unity and C#, focusing on software engineering principles, image recognition workflows, system integration, and performance testing.

- **Senior Engineer**   Feb 2021 – Aug 2024
  3.5 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 technical operations, JIRA, 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 to ensure adherence to software engineering standards and OAuth 2.0–based token authentication.

- **Full Stack Intern**   Oct 2020 – Feb 2021
  3-month internship, successfully converted to full-time role

  - Supported data research and data products development initiatives by prototyping and testing web-based applications using JavaScript, HTML, and CSS. Strengthening hands-on web development skills.

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

Projects

- **Image Recognition System (AR Application)**   (GitHub Link)   Apr 2025 – Present

  - Developed and tested an AR Android application using **Unity3D and C#**, focusing on mobile app development and preparing for future firmware development work while handling structured data.
  - Performed **Data visualization** 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, SQL-backed storage, data visualization, and data products development.
  - 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.

- **Softbook – Library Management Mobile Application**   (Website)   Feb 2025 – Aug 2025

  - Contributed to software development and **beta testing** of a database-driven application.
  - Performed data analysis and validation by app logs, supported web application design and development.
  - Supported technical documentation and communicated updates through reports and presentations.

- **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.
  - Maintained clear technical documentation describing system architecture and deployment steps.

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 customer requirements, problem-solving, and punctuality. Supportive in team environments, with a strong ability to collaborate, solid interpersonal skills, and a proven approach to build relationships across diverse teams. Clear written and verbal communication, with effective communication skills to explain technical ideas to non-technical stakeholders. Highly motivated and detail-oriented, with critical thinking, constructive feedback, and adaptability to support system stability.

Achievements

- Selected and recruited into the **STELAR Department** as a Data Scientist based on technical performance and research contributions, supporting large-scale academic datasets (100,000+ records).
- Awarded **2nd Place – Best Student Worker Contribution** at STELAR, ranking among top-performing student employees for research impact, reliability, and technical delivery.
- Earned **Oracle Cloud Infrastructure Certified Data Science Professional** certification (Oct 2025), validating hands-on proficiency in cloud-based data science workflows and ML fundamentals.