Syed Hassan Ahmed

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Summary

Data Science and AI graduate student with prior experience as a Senior Software Developer, skilled in building data-driven solutions and scalable systems. Adapted quickly to new environments, mastering multiple technologies in under four years. Strong analytical mindset with hands-on work in machine learning, Python, and cloud-based development. Seeking opportunities to contribute to impactful projects and grow within a collaborative team.

Technical Skills

- **Programming Languages:** Python, C#, JavaScript, SQL
- **Frontend Technologies:** HTML, CSS, React.js, React Native
- **Backend Web Frameworks:** Node.js, Express.js, Flask, REST APIs
- **Databases:** MySQL, SQL, MongoDB
- **Data Science, AI & ML:** Pandas, NumPy, Machine Learning, Deep Learning, NLP, LLMs
- **AR & Computer Vision:** Unity3D, OpenCV, Integrated device sensors for AR overlays
- **Cloud & DevOps:** AWS S3, Lambda, EC2
- **Data Engineering & Systems:** Data pipelines, Web services, SDLC, System integration, Device testing
- **Data Visualization & BI Tools:** Tableau, Power BI
- **Development Tools:** Visual Studio Code, PyCharm, Jupyter Notebook
- **Microsoft Office Suite:** Word, Excel, PowerPoint, Access, Outlook, OneNote, Publisher

Experience

- **Data Scientist (Research Programmer) – STELAR, University of St. Thomas** Jan 2025 – Present
  1 year of experience (current)
  - Performed computer engineering, data analysis, and reporting on large research datasets (100,000+ records) to support academic insights.
  - Developed automated data processing workflows using Python (Pandas, NumPy, OpenPyxl) to clean, classify, and integrate data into structured Excel reports.
  - Applied basic NLP techniques (tokenization, keyword extraction) to improve data categorization accuracy and communicated results to stakeholders.
  - Designed Augmented Reality (AR) applications using Unity and C#, focusing on image recognition workflows, system integration, and performance testing.

- **Senior ServiceNow Software Developer** Feb 2021 – Aug 2024
  3.5 years of professional experience
  - Designed, developed, and supported ServiceNow applications in a regulated public-sector environment, collaborating with stakeholders to gather requirements and document technical solutions.
  - Built, optimized, and maintained workflows and data-driven features using ServiceNow and JavaScript to improve system reliability, reporting, and access-controlled information handling.
  - Led enhancements, performed code reviews, and supported production deployments while ensuring compliance with organizational standards.

- **R&D Software Engineer Intern** Oct 2020 – Feb 2021
  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.

- Assisted in evaluating new features and technical approaches through debugging, experimentation, and iterative improvements.
- Collaborated with team members to document findings, learn new technologies, and support R&D-driven solution design.

Projects

- **Image Recognition System (AR Application)** Apr 2025 – Present
  - Developed and tested an AR Android application using **Unity3D and C**, working with structured data and system workflows.
  - Performed **beta testing** and basic performance analysis, documenting results in written reports.
  - Communicated findings clearly through documentation and presentations.
- **Ancient Pottery Research and Categorization** 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.
  - Collaborated with cross-functional teams to gather requirements and iterate quickly.
- **Softbook – Library Management Mobile Application** Feb 2025 – Aug 2025
  - Contributed to development and **beta testing** of a database-driven application.
  - Performed data analysis and validation using application logs and **Excel**.
  - Supported technical documentation and communicated updates through reports and presentations.
  - Website
- **Medical AI Chatbot (Academic Project), UST** Jan 2025 – May 2025
  - Developed and tested a medical support chatbot using **Python and Flask**, focusing on system reliability and workflows.
  - Conducted functional testing of API integrations and model responses.
  - 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 – May 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 empathetic approach to problem-solving and teamwork. Strong collaboration skills in cross-functional and diverse teams. Communicates technical ideas effectively to non-technical stakeholders. Passion for continuous learning and adopting new technologies. Adaptable in fast-paced environments with a proactive mindset. Reliable, accountable, and detail-oriented. Interested in global collaboration and cross-teamwork.

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.