

# Syed Hassan Ahmed

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## Summary

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Data Science and AI graduate student with prior experience as a Senior Software 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

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- **Programming Languages:** Proficient (Python, JavaScript, SQL), Familiar (TypeScript, C#, R)
- **Frontend Technologies:** HTML, CSS, React.js
- **Backend & Web Frameworks:** Node.js, Flask, REST APIs
- **Databases:** PostgreSQL, MySQL, SQL
- **Data Science, AI & ML:** Pandas, NumPy, Machine Learning, Deep Learning, NLP, LLMs
- **AR & Computer Vision:** Unity3D, OpenCV, ARCore
- **AWS Services:** S3, Lambda, EC2
- **Data Engineering & Systems:** Agile software development, Web services, SDLC, System integration
- **Data Visualization & BI Tools:** Tableau, Power BI
- **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

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- **Data Scientist (Research Programmer) – STELAR, University of St. Thomas** Jan 2025 – Present  
*1 year of experience (current)*
  - Performed application development, computer engineering, 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 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 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 organizational standards and OAuth 2.0 based token authentication.
- **Software Engineer - Data 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, 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 R&D-driven solution design.

## Projects

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- **Image Recognition System (AR Application)** 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 **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.
  - Collaborated with cross-functional teams to gather requirements and iterate quickly.
- **Softbook – Library Management Mobile Application** Feb 2025 – Aug 2025
  - Contributed to software 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** (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

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- **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

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Caring with a strong willingness to help in problem solving and teamwork. Strong collaboration skills in diverse teams. Strong written and verbal communication, with verbal communication skills to explain tech. ideas to non-technical stakeholders. Highly motivated with critical thinking, persistence, and a passion for learning. Adaptable in fast-paced environments with a proactive mindset and strong attention to detail.

## Achievements

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- 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.