

Md Siam Ahmed

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SUMMARY

Computer Science student (4.0 GPA, Honors College) with a Data Analytics minor and hands-on experience in spatial data analysis, large-scale data QA/QC, and technical documentation. Familiar with Texas State facilities operations from a summer of daily work orders with Housing and Residential Life. Detail-oriented, comfortable following established procedures, and available 15–20 hours per week for the full 2026–2027 academic year.

EDUCATION

Texas State University — College of Science and Engineering, Honors College **Expected May 2029**
Bachelor of Science in Computer Science, Concentration in Computer Engineering | Minor: Data Analytics
GPA: 4.0 | Honors: President's List (Fall 2025, Spring 2026); Texas State Achievement Scholarship 2025–2026

TECHNICAL SKILLS

Geospatial & Data: ArcGIS Pro [in progress — Esri fundamentals]; spatial dataset processing, data entry and verification, QA/QC, statistical analysis, data visualization

Languages: Python, C++, SQL, JavaScript

Tools: Microsoft Excel and Office, PostgreSQL, Scikit-Learn, Pandas, Git/GitHub, Django

RELEVANT EXPERIENCE

Lead Undergraduate Researcher — Genomic Data Pipeline **Feb 2025 – Present**
Texas State University, Department of Computer Science *San Marcos, TX*

- Lead development of a high-throughput data pipeline processing 15,000+ genomic profiles under faculty supervision, maintaining consistent file naming, directory structure, and version control across the dataset.
- Run routine QA/QC on large datasets — checking for missing fields, duplicate records, and formatting inconsistencies before analysis.
- Document workflows and report progress to a faculty supervisor in recurring check-in meetings.

Research Contributor — Transit Mode-Shift Analysis *Jan 2025 – Dec 2025*
Ahsanullah University of Science and Technology

- Cleaned, coded, and verified survey data on commuter travel behavior across metro corridors; produced figures and visualizations communicating findings to faculty and a student research team.

Research Contributor — Municipal Waste Infrastructure Study (Under Review) *Aug 2025 – Dec 2025*
Ahsanullah University of Science and Technology

- Compiled and analyzed municipal infrastructure data in Python, applying correlation and regression to identify trends in waste generation by area; prepared charts, tables, and documentation for a manuscript under peer review.

Student Painter / Mover — Campus Facilities *May 2026 – Aug 2026*
Department of Housing and Residential Life, Texas State University

- Completed daily work orders and large-scale facility updates across residence halls on schedule as part of a facilities crew.
- Logged completed work and reported damage and repair needs across multiple campus buildings, gaining direct familiarity with building layouts and Facilities work-order workflow.

Instructional Assistant, Dept. of Physics | Grader, Dept. of Computer Science **Aug 2026 – Present**
Texas State University

- Maintain accurate grade records and lab equipment inventories following established departmental procedures; explain technical procedures clearly to students and report to faculty supervisors.

PROJECTS

SolarOptima — Geospatial Crop Recommendation API **Python, Django, PostgreSQL, Scikit-Learn**

- Built an API processing NASA solar irradiance data across 50+ geographic regions, joining location-based datasets to generate region-specific recommendations at 85% accuracy.

CloudShelf — File Organization System **C++, Local LLM**

- Automated organization of 1,000+ files into a hierarchical folder structure using content parsing and a rule engine, cutting manual sorting time by 90%.

ACTIVITIES & ADDITIONAL

Activities: AI Ambassador; Member, .EXE Student Organization; Member, Game Developers Society @ TXST — Texas State University, 2025–Present

Availability: 15–20 hrs/week, flexible around classes, August 2026 – May 2027. Fall 2026 course schedule available on request.

Certifications: Texas Food Handler certification. Valid driver's license [in progress].