

SHAHAN AHMED

Computer and Information Research Scientists (SOC Code: 15-1221.00)

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PROFESSIONAL EXPERIENCE (5.5 Years)

IT Production Control, Endicott, New York

Conduent | July 2024 – Present

- Perform large-scale demographic data analysis using R, Python, and SQL for actionable insights.
- Develop service applications and automated workflows to improve operational efficiency.
- Manage system monitoring, quality assurance, and server updates to ensure high availability.
- Incident management and network troubleshooting across servers and switches.

Lead Data Analyst (Project)

R2 institute of data Science and Information Technology | New Jersey, United State

May 2024 – Jun 2024

- Led exploratory analysis of large-scale demographic and health datasets to uncover key population trends.
- Designed and developed interactive visualizations to communicate insights to technical and non-technical stakeholders.
- Delivered data-driven presentations to guide research focus and inform institutional decision-making.

Graduate Assistant

Montclair State University, Montclair, New Jersey, United State | February 2023 – May 2025

- Assisted in teaching and grading for 40+ students across two sociology courses and created 5+ data guides and resource materials to support demographic and policy-focused instruction.
- Conducted demographic health data analysis and presented DHS research findings at the 2024 Montclair State Student Research Symposium.
- Supported data collection and visualization for 3+ academic events and PhD forums, contributing to university-wide engagement in data science and social research.

Project Associate

SDG Pivot, Dhaka, Bangladesh | May 2021 – December 2021

- Coordinated cross-sector data collection efforts, improving project evaluation accuracy and strengthening collaboration across 10+ partner organizations.
- Tracked and analyzed project performance metrics for 5+ sustainability initiatives aligned with the UN Sustainable Development Goals (SDGs), ensuring data-informed decision-making.
- Created dashboards and summary reports to communicate progress and impact to stakeholders, including government officials and educational institutions.

Internship

Ministry of Foreign Affairs, Dhaka, Bangladesh | January 2021 – April 2021

- Synthesized quantitative insights and policy findings into final reports, presenting actionable recommendations to senior foreign affairs officials.

District Coordinator

SBK Foundation, Sylhet, Bangladesh | January 2020 – February 2022

- Designed and implemented tracking systems to measure digital literacy outcomes among 500+ women participants, supporting impact assessment and reporting.

EDUCATION

Master of Arts in Social Research and Data Analysis-MA

(Applied Quantitative Methods)

- **Institution:** Montclair State University
- **GPA:** 3.75
- **Graduation Date:** May 2024

Bachelor of Social Science in Political Science

- **Institution:** National University, Dhaka, Bangladesh
- **CGPA:** 2.93
- **Graduation Date:** September 2019

Lead Authorship

1. **Shahan Ahmed (2022)**, I Ahmed, M Kamruzzaman, R Saha
Cybersecurity Challenges in IT Infrastructure and Data Management: A Comprehensive Review of Threats, Mitigation Strategies, and Future Trend
Global Mainstream Journal of Innovation, Engineering & Emerging Technology, 1(01)
2. **Shahan Ahmed (2023)**, A Rahman, M Ashrafuzzaman
A Systematic Review of AI And Machine Learning-Driven IT Support Systems: Enhancing Efficiency and Automation In Technical Service Management.
American Journal of Scholarly Research and Innovation 2 (02), 75-101
3. **Shahan Ahmed (2024)**
The Role of Data Analytics In Public Health: A Case Study of Vaccination Coverage in Developing Countries.
Academic journal on science, technology, engineering & mathematics education, 4(04)

Co-Authorship

1. Avijit Ghosh, Nondon Lal Dey, Md Rafid Hasan, Md Aliahsan Bappy, Md Humaun Kabir, Shirin Begum, **Shahan Ahmed(2025)**, Abdus Salam Howlader, Nasser S Awwad, Huriyyah A Alturaifi
Innovative double absorber solar cell design combining Ca3AsI3 and Ca3PI3 perovskites for achieving over 29% efficiency.
Optics & Laser Technology, Elsevier 183, 112399.
2. Avijit Ghosh, Nondon Lal Dey, Md Rafid Hasan, Md Aliahsan Bappy, Md Humaun Kabir, Shirin Begum, **Shahan Ahmed (2025)**, Abdus Salam Howlader, Nasser S Awwad, Huriyyah A Alturaifi
Discovering the relationship between sulfide and selenide-based HTLs and cubic Ba3SbI3 solar cells with SCAPS-1D and machine learning modelling.
Inorganic Chemistry Communications, Elsevier 173, 113782.
3. **Shahan Ahmed (2025)** | Naomi Nguyen
Individual and Contextual Determinants of Complete Infant Vaccination: A Comparative Study of Bangladesh and Pakistan Using the DHS, 2017-18. (Poster Presentation), Student Research Symposium, <https://www.montclair.edu/institutional-review-board/wp-content/uploads/sites/179/2024/04/2024-Final-Program.pdf>