# Clara A. Richter

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## EXPERIENCE

**Data Scientist (CGI Federal),** US Air Force Acquisition Team, Arlington, VA *January 2024 – Present*

- Developed the Analysis Support Tool (AST) using Python to automate quarterly report generation, processing cost and schedule data in Excel to produce calculations and visualizations, reducing customer report creation time from weeks to seconds, earning "Star of the Month" twice, multiple nominations, and a special CGI award with monetary bonus
- Built the Content Analysis Tool using HTML, JavaScript, and Python's Pyvis library, leveraging NLTK and regex libraries to extract themes and patterns from reports, enabling customers to explore article-theme networks, filter data, and download reports for enhanced engagement

**Founder & Platform Developer,** Epic Event Solutions (EES) LLC *September 2025 – Present*

- Co-Founded EES and developed "EPIC," a comprehensive wedding and event planning tool featuring interactive task checklists, timeline phasing with sequence-stepped dependencies, budget tracking, multi-user collaboration, and day-of timelines
- Built the application using JavaScript, Tailwind CSS, Stipe, Supabase, Netlify, and AI tools like Lovable

**Data Science Intern,** Thomson Reuters Special Services, McLean, VA *May 2022 – August 2022*

- Contributed to a U.S. government-related data project by building a convolutional neural network for facial reidentification using Python and SageMaker
- Presented findings and technical work to company leaders

**Digital and Data Science Team Member,** Takeda, Lexington, MA *June 2020 – June 2021*

- Improved production yield using manufacturing data through high-volume data entry in Statistica and reviewing team work to detect and correct errors
- Extracted and cleaned large datasets using SIMCA-Online and Excel to support data-driven process enhancements

## SKILLS

- **AI & Machine Learning:** Artificial Intelligence (AI), machine and deep learning, neural networks (CNNs, Keras+TensorFlow, PyTorch), NLP (summarization, NER, NLTK), statistical modeling, regex for pattern extraction
- **Data Tools & Languages:** Python (pandas, scikit-learn, Pyvis), R, HTML, JavaScript, SQL, AWS (SageMaker), Spark, Hadoop, Databricks, Dash, command line, Microsoft Excel, Git/GitHub
- **Data Visualization:** Tableau, PowerBI, Plotly, ggplot2, matplotlib, Seaborn, Vega-Altair, Processing, Excel charts, network graphs

## EDUCATION

- **M.S. in Data Science and Analytics** Georgetown University, Washington, DC August 2021 – May 2023 Overall GPA: 4.0
- **B.A. in Physics — Minor in Film** Mount Holyoke College, South Hadley, MA August 2016 – May 2020 Overall GPA: 3.8 — Major GPA: 3.8 *Magna Cum Laude*