

Trinity Chamblin

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EDUCATION

University of Virginia, College of Arts & Sciences — Charlottesville, VA
B.S. Statistics, B.A. Computer Science

May 2026

Relevant Coursework: Statistical Analysis, Algorithms, Linear Algebra, Regression Analysis, Probability, Mathematical Statistics, Discrete Mathematics, Database Systems, Data Ethics, Financial Time Series, Software Development, Machine Learning, Experimental Design

SKILLS

Languages: Python, SQL, R, Java (Intermediate), C (Basic)

Tools: Tableau, Power BI, GCP, Databricks, Spark, dbt, SAS, Git, REST APIs, GIS

Libraries & Frameworks: pandas, NumPy, scikit-learn, TensorFlow, PyTorch, Hugging Face Transformers, caret, randomForest, spaCy

Methods: statistical modeling, predictive analytics, exploratory data analysis, NLP pipelines

Other: data validation, data cleaning, data pipeline development, database operations, CI/CD, web scrapping, geospatial analysis

WORK EXPERIENCE

Data Management Intern | **Commonwealth Savers / Virginia 529** — North Chesterfield, VA

May 2025 – Aug. 2025

- Designed and deployed an evaluation dashboard to measure investment program effectiveness across income distributions, enabling leadership to pinpoint target communities and monitor annual impact rates
- Architected an executive-facing analytics dashboard to track call volume, categorization, and average handling times, improving operational visibility and reporting
- Automated data workflows and administrative processes using Python, SQL, and REST API integrations within a CI/CD environment, building user-facing dashboards and eliminating manual overhead on credential and permissions management.

Data Science Intern | **Computing for Global Challenges** — Charlottesville, VA (Hybrid)

May 2024 – Aug. 2024

- Integrated and orchestrated data ingestion pipelines from FAO, U.S. Customs and Border Protection, and U.S. Census; cleaned, standardized, and transformed raw data using repeatable validation and deduplication routines to study post-COVID migration trends
- Developed predictive classification and regression models connecting food insecurity and migration patterns
- Applied geospatial reasoning and communicated findings through clear analytic narratives for policy-focused stakeholders

Undergraduate Researcher | **Biocomplexity Institute** — Remote

Sept. 2023 – Jun. 2024

- Optimized data pipelines and front-end metadata rendering for the Social Impact Data Commons platform improving end-user accessibility and readability of large datasets
- Developed regex-based data processing workflows to classify and organize 1,000+ repository files, enforcing schema compliance and quality assurance standards across the platform

Data Analyst Intern | **BreakThru Services LLC** — Remote

Jun. 2022 – Dec. 2024

- Engineered a Python-based automated data pipeline to ingest, validate, and transform structured billing and invoice records using pandas and NumPy, reducing processing errors and improving billing efficiency by 10%
- Built a reporting dashboard and prepared analytical reports illustrating monthly net collection rates; improved net collection rates to **90%**, increasing financial visibility for leadership

Data Science Intern | **Data Science for the Public Good Young Scholars Program** — Arlington, VA

May 2023 – Aug. 2023

- Manipulated and analyzed a 166,000-row dataset using Python and R, improved data quality, enabled more robust statistical analyses
- Built a reusable web scraping tool that reduced data collection time by 50% and improved repeatability of acquisition workflows
- Ran regression and classification analyses on economic variables tied to altruistic behavior, presenting findings to local policymakers
- Produced written and verbal analytic outputs to communicate technical results to nontechnical stakeholders

KEY PROJECTS

File Validation System — Social Impact Data Commons *Regex, Python (pandas)*

Aug. 2023 – Mar. 2024

- Spearheaded development of a comprehensive file validation system for the Social Impact Data Commons, enhancing data integrity and quality across the platform
- Engineered a robust CSV validation program applying repeatable routines for validation, deduplication, and business-rule application, ensuring consistency and accuracy of 10K data files across multiple attributes and value ranges

Geocode & Reverse Geocode Toolkit *Git, Google Geocode API, Geospatial Analysis, Python (pandas)*

Jul. 2023 – Jan. 2024

- Led development of two geolocation tools (traditional and reverse geocoding) with user-friendly interfaces.
- Produced LaTeX documentation and evaluated tool effectiveness and accuracy (approx. 30s per 10K rows).

Business Climate — Social Impact Data Commons *Python (TensorFlow, scikit-learn, PyTorch), R, Git*

May 2023 – Aug. 2023

- Developed and evaluated predictive classification models to analyze business diversity in Fairfax County, VA, achieving a 12% reduction in classification errors across SVM, Decision Tree, and Probit architectures
- Engineered NLP pipelines using PyTorch and scikit-learn for feature extraction, tokenization, and model tuning on structured and unstructured business data
- Presented model results to the Fairfax County Chief Data Officer and Economic Development Authority, translating technical findings for nontechnical stakeholders