Holiness Trecy Kerandi

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Technical Skills

Data & Backend: Python, SQL (PostgreSQL, SQLite), Pandas, NumPy, ETL workflows, data modeling
Frontend & Visualization: React, JavaScript, Tableau, Matplotlib, Jupyter, ArcGIS
Tools: Git, Google Sheets API, Airtable, REST APIs

Projects & Experience

Carceral Data Platform — *Full-Stack Data Engineering*   *In Development (Launch: March 2025)*
Python, PostgreSQL, React, Pandas, ArcGIS

- Architecting PostgreSQL database aggregating incarceration data from 5+ sources; designing normalized schema with 15+ tables to handle 50K+ records
- Developing Python ETL pipeline with automated data validation, cleaning, and quality checks; building React frontend with ArcGIS integration for spatial data visualization
- Implementing data governance framework for sensitive records including access controls and public data anonymization

Carceral Algorithms & Bias Analysis — *Data Pipeline & Analysis*   *Python, Pandas, SQLite*

- Built Python ETL pipeline cleaning and normalizing 10,000+ misconduct records from inconsistent CSV exports across 5+ facilities
- Designed SQLite data model tracking punishment severity and demographics; created reproducible Pandas workflows uncovering 3× racial disparity
- Presented findings at Susquehanna River Valley Undergraduate Research Symposium with interactive Tableau dashboards

Cultural Diffusion in Global Music — *1st Place, Data Challenge Hackathon*   *Python, Pandas, Matplotlib*

- Engineered data pipeline processing 50 years of Billboard Hot 100 data (100K+ records) to analyze linguistic and cultural trends
- Built automated cleaning workflow handling inconsistent formatting; identified 480% increase in non-English entries since 2000
- Awarded Best-in-Show for technical execution and cultural analysis; created visualizations showing globalization patterns

International Student Orientation — *Task Optimization*   *Python, Pandas, Google Sheets API*

- Designed data-driven workflow system optimizing 90+ onboarding tasks across 50+ countries; reduced manual planning time by 40%
- Built Google Sheets API integration for real-time staff workload tracking with automated task distribution algorithms

Griot Institute: African Girlhoods Research — *Data Structuring & Analysis*   *Qualitative Processing*

- Structured 500+ qualitative interviews and archival documents into queryable dataset with standardized tagging schema
- Built data pipeline categorizing entries by region, theme, and period; presented findings at National Women's Studies Association Conference

Education

Bucknell University, Lewisburg, PA   Expected Jan 2027
B.S. in Computer Science & Engineering
Relevant Coursework: Data Structures & Algorithms, Computer Systems, Software Engineering & Design, Research Methods