Emma Cunningham | CV

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Education
Penn State University
B.S. Cybersecurity Analytics & Operations (Expected May 2026)

- Minor: Information Sciences & Technology
- Relevant coursework: Data Analytics, Database Management (SQL), Statistical Modeling, Machine Learning, Cybersecurity Principles

Technical Skills
- **Languages & Tools:** Python (Panda, Matplotlib, Seaborn), SQL, React Native, MS Access
- **Data Analytics:** Statistical modeling, hypothesis testing
- **Platforms:** Snowflake (familiar), Jupyter Notebook
- **Other:** Dashboard design, data visualization, report generation, presentation skills

Projects & Research
- **Digital Twin for Student Engagement**: Developed predictive models to analyze behavioral data, improving early intervention strategies in e-learning.
- **Blockchain Access Control Framework**: Collaborated on paper proposing a decentralized approach for securing education and health records.
- **Mobile Health App:** Worked on a React Native app integrating wearable data for stress monitoring, with analytics dashboards for personalized recommendations.

Key Strengths
- Strong ability to translate complex datasets into actionable insights.
- Experienced in working with large-scale behavioral data and designing data visualizations.
- Excellent communicator with experience presenting to both technical and non-technical audiences.
- Self-starter with passion for learning and applying advanced analytical methods to real-world business outcomes.

Personal AI Project

Privacy-Aware AI Agent for Discrete Mathematics (Independent Project)

- Designed and built a custom AI agent using OpenAI and Visual Studio Code to support learning in a discrete mathematics course.
- Trained the agent exclusively on professor-provided coursework and class materials to ensure alignment with course-specific concepts and expectations.
- Developed tailored practice problems and step-by-step explanations strictly based on material covered in class.
- Focused on controlled data handling and responsible AI use, avoiding external data sources and minimizing memorization risk.
- Used the project to explore structured reasoning and AI-assisted learning within constrained educational contexts.

Key Strengths

- Strong ability to translate complex datasets and technical concepts into actionable insights.
- Experienced in applied research, data analysis, and privacy-aware system design.
- Excellent communicator with experience presenting to both technical and non-technical audiences.
- Self-starter with a strong interest in responsible AI, privacy engineering, and real-world system impact.