GREGORY GLATZER

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EDUCATION

The Pennsylvania State University, College of Information Sciences and Technology	August 2019 –
B.S. Applied Data Science, Cumulative GPA: 3.95	May 2023

EXPERIENCE

Elephant Movement Research with IST Faculty – Researcher — *May 2021 - August 2021*
- Authored the research paper "Applying DBSCAN to Elephant Movement Data". Accepted into the 2021 Tanzania Wildlife Research Institute Scientific Conference.
- Applied DBSCAN and KMeans clustering to elephant data to predict locations of interest for elephants using sklearn, geopandas, and shapely Python packages.
- Conducted literature review of anti-poaching technologies.
- Created a data-driven dashboard in Python with streamlit, folium, and pandas.
- Demonstrated initiative and the ability to create self-driven work.

The Mental Health Project- Front end developer — *May 2021 - Present*
- Designed the interface and functionality for a mental health patient intake system that is estimated to save data entry personnel 6 hours a day.
- Iterative design of a frontend web application using React.js and Material-UI.
- Consulted with mental health professionals on pain points and best practices in application design.
- Took feedback from UI/UX professionals on application design choices and implemented changes.

Intonation Map Creator – Personal Project — *November 2020 - Present*
- Developed a full stack website that gathers and analyzes intonation data for woodwind players.
- Visualized real-time data with interactive visualizations made with recharts.js
- Deployed on Google's Firebase platform and utilized their authorization and real-time database features.
- Demonstrated passion for work and ability to overlap domain knowledge.
- https://www.intonationmap.com

OpenVessel – Team Member and Tech Lead — *May 2020 - May 2021*
- Led a technical team of 14 for over 200 hours through full stack development of a Flask webapp.
- Worked with Penn State Hershey Medical Center Clinical Radiology Research Group (CRRG) radiologists to develop a liver-lesion detection and classification system.
- Won 2nd place in the Nittany AI Challenge. The 2020 Nittany AI Challenge included 196 students on 59 teams competing for a total of $50,000 in funding.

LEADERSHIP EXPERIENCE

IST Diplomats
- Selected by Penn State College of IST faculty through a competitive application process
- Works closely with faculty, prospective students & parents, and current undergraduates
- Trained in conversation skills, self-awareness, professional development

SKILLS

Data Science/Machine Learning
- Python
- SQL
- Bokeh, Matplotlib
- Pandas, NumPy
- Web Scraping
- Data Preprocessing

Web Development
- Flask, React
- HTML/CSS, JavaScript
- Bootstrap, Material-UI
- Reacharts.js
- Google Firebase

Other
- All-national, all-eastern, all-state clarinetist
- Saxophonist
- Flautist