Gregory Glatzer

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GitHub: https://www.github.com/g1776   **Portfolio:** http://g1776.github.io/

Education

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

Experience

The Mental Health Project – Frontend developer   **November 2019 – November 2020**

- Won the IBM Advantage in the 2021 Nittany AI Challenge in the Development Phase.
- Designed the interface and functionality for a mental health patient intake system that is estimated to save data entry personnel 6 hours a day.
- Developed a frontend web application using React.js and Material-UI, with an API written in TypeScript and GraphQL.
- Consulted with mental health professionals on pain points and best practices in application design.
- Iteratively improved the application based on meetings with UI/UX professionals on application design choices.

Elephant Movement Research with IST Faculty – Researcher   **May 2021 - November 2021**

- Applied DBSCAN and KMeans clustering algorithms using sklearn, geopandas, and shapely Python packages to understand elephant movement in Sub-Saharan Africa.
- Presented an overview of anti-poaching technology literature.
- Created a data-driven dashboard with streamlit, folium, and pandas to allow exploration of elephant movement analysis.
- Demonstrated initiative and the ability to create self-driven work by independently applying and learning ML algorithms.

OpenVessel – Full Stack developer and Tech Lead   **May 2020 - May 2021**

- Won 2nd place in the Nittany AI Challenge against 196 students on 59 teams competing for a total of $50,000 in funding.
- Led a technical team of 14 for over 200 hours through full stack development of a Flask webapp, including designing a MySQL database, user authentication, data flow, and ML model implementation.
- Worked with Penn State Hershey Medical Center radiologists to develop a liver-lesion detection and classification system.

Publications

An Analysis of Elephants' Movement Data in Sub-Saharan Africa Using Clustering – First author   **December 2021**
- Presented at the Tanzania Wildlife Research Institute (TAWIRI) 13th Annual Scientific Conference in Arusha, Africa.

Leadership Experience

IST Diplomats   **Spring 2020 - Present**

- 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 & Certifications

Skills

- JavaScript, HTML, CSS, Python, SQL, R
- React.js, Node.js, TypeScript, GraphQL
- Pandas, sklearn, Streamlit
- MongoDB, Neo4j, Redis
- Bokeh, Matplotlib, seaborn

Certifications

- Agile at Work: Building Your Agile Team (LinkedIn Learning)
- Certified Data Scientist Level 1 Credential (General Assembly)
- Nittany AI Challenge 2020 and 2021 Finalists