

# GREGORY GLATZER

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Portfolio: <http://g1776.github.io/>

## EDUCATION

### The Pennsylvania State University, College of Information Sciences and Technology

B.S. Applied Data Science

August 2019 – May 2023

Cumulative GPA: 3.95

## EXPERIENCE

### OpenVessel – Team Member and CTO

May 2020 - Present

- 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 using Convolutional Neural Networks with Tensorflow.
- 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.

### Elephant Movement Research with IST Faculty – Researcher

May 2021 – August 2021

- Authored the research paper “Applying DBSCAN to Elephant Movement Data”.
- Applied DBSCAN clustering to elephant data and used centroids to predict locations of interest for elephants.
- Conducted literature review of anti-poaching technologies.
- Demonstrated initiative and the ability to create self-driven work.

### EY sponsored project - Team member

November 2019 - November 2020

- Worked in a team of 3 for over 170 hours on a customizable dashboard that helps consultants better understand the companies they are working with.
- Developed web scraping scripts to gather stock, legal, and twitter information.
- Visualized results with interactive graphs made with Bokeh.

### 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>

## 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
- Recharts.js
- Google Firebase

### Other

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