

# LUCAS GOVER

## Data Engineer and Data Analyst

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☆ www.lucasgover.com

## PROJECTS

### Generative AI research

📅 05/2023

🔗 <https://www.lucasgover.com/pdfs/birds.pdf>

- Working alongside a team, I explored the use of GANs for generating artificial birdsong. My research focused on two distinct architectures, Recurrent Neural Networks (RNNs) and Transformers, and their capability to model and generate realistic birdsong.
- I conducted experiments to evaluate the efficacy of both models and leveraged Continuous Wavelet Transforms (CWTs) to generate more accurate time and frequency measurements.
- Through my rigorous research, I was able to contribute to a new understanding of GANs and their potential applications in Audio.

### World Values Survey Data Visualization

📅 06/2023 - 07/2023

🔗 <https://www.lucasgover.com/political-identity-decision-tree/>

Developed a web-application which visualizes how personal identities can shape political values. Designed and built front-end user interface and data visualization, and integrated the back-end that uses machine learning to service queries. The website communicates complex political and identity dynamics in an easily understandable way, developing an intuitive yet detailed platform that can be used by both laymen and seasoned political scientists.

### More Projects can be found on my website

🔗 <https://www.lucasgover.com>

## EXPERIENCE

### AI, Programming, & Leadership Lead Instructor

#### iDtech

📅 2023 - Present 📍 Chicago, IL & Cambridge, MA

- Advised and assisted instructors while teaching courses on Java, Python, Leadership, and Artificial Intelligence. Students left with strong foundations in computer science. Students gave feedback for my classes such as "Fun time, very interactive and engaging learning" and "[Lucas] was kind, attentive, and lessons were easy to digest."
- Taught a course on Artificial Intelligence with NVIDIA at MIT, where students created and trained Computer Vision and Natural Language Processing models, and gained confidence with the command line.
- Taught and developed lesson material for a course on Entrepreneurship, Leadership, & Communication in partnership with the Kellogg School of Management.

### Computer Science Tutor and Teaching Assistant

#### University of Puget Sound

📅 09/2022 - 05/2023 📍 Tacoma, WA

- Provided in-depth tutoring to undergraduate students on a weekly basis. Tutored students in upper-level courses including software development, Algorithms, Statistics, Database Systems, Computer Graphics, and Artificial Intelligence.
- Multiple students received a two letter grade increase in their test scores with my assistance.

### Resident Assistant

#### University of Puget Sound

📅 01/2021 - 05/2023 📍 Tacoma, WA

- Served as the go-to resource for the residents of my assigned residence hall for three years. Provided support, guidance, and direction for any issues that arose.
- Created multiple strong and supportive hall communities of first-year students. Additionally, I acted as a role model for the student body and help to create a positive living and learning environment.

## EDUCATION

### B.S. in Computer Science

#### University of Puget Sound

📅 08/2019 - 05/2023

📍 Tacoma, WA

Department GPA

3.82 / 4.0

### B.A. in Political Science

#### University of Puget Sound

📅 2019 - 2023 📍 Tacoma, WA

GPA

3.5 / 4.0

## AWARDS



**First Place in the Puget Sound Programming Contest**



**Deans List Student**  
2022 - 2023



**Edward Goman Math and Computer Science Award**

## LEADERSHIP, AWARDS, & COMMUNITY INVOLVEMENT

**Head of Design for The Commons Politics Journal** 📅 01/2023 - 05/2023

**President of UPE Comp Sci. Honor Society** 📅 04/2022 - 05/2023

University of Puget Sound Chapter

**Honor Court Justice** 📅 10/2022 - 05/2023

**Assistant Director** 📅 08/2021 - 08/2022  
EcoExplorers Summer Camp

## SKILLS

Java	Python	C	SQL	MySQL
PostgreSQL	Git	D3.js	AWS	
Microsoft Excel	Google Sheets			

## CERTIFICATION

**AWS Cloud Practitioner**

**Amazon Web Services, 2023**