

Data Scientist with 2 years of experience in Natural Language Processing and 4 years in mining, analyzing and visualizing large complex structured and unstructured data sets. Passionate about programming since high school with in-depth work experience with developing, testing and deploying code for production use. Strong background in Political Science, startups, project management, and cloud computing. Involved with community service based projects.

WORK EXPERIENCE

Aware, Columbus, OH

Intern (January 2022 - May 2022), **Data Scientist** (May 2022 - Present)

Series D startup funded by Goldman Sachs providing AI solutions for governance, risk, compliance and insights for Slack/Teams.

- Added pre-processing features to improve model performance and migrated pipeline infrastructure for 5 models to AWS Sagemaker.
- Refactored an RNN Language Model and added support for 4 languages alongside transliterated text. Model training time was cut by 25%.
- Conducted end-to-end unit testing on model pipelines and Exploratory Data Analysis on possible ethical or performance concerns.
- Member of Culture Committee and led biweekly Journal Club discussing the latest in Machine Learning/Academia.

The Ohio State University Political Science Department Columbus, OH

Research Data Analyst (May 2020 - May 2022)

- Negotiated partnership with LexisNexis to implement API Solutions and secured Google Cloud Academic Research Credits for the projects.
- Supreme Court Amicus Curiae Networks:** Presented "Time, Place and Scope: A Journey through the U.S. Supreme Court and its Friends" as a poster at the 2020 POLNET/PACSS Conference and as a conference paper at SPSA 2021; Scraped, processed, organized into a MySQL database all Supreme Court Journals; Created over 60 data visualizations in Tableau to investigate correlations in Supreme Court Amicus Briefs.
- Congressional One-minute Speeches:** Developed a 12-month technical project plan to capture relevant insights from one-minute speeches in Congress (1996-2021); Utilized text analytics to track partisanship, nationalism, and populism within Congress; Utilized NLTK, SpaCy for Entity Relation Extraction, and CUDA + Docker for GPU acceleration. Worked with Seeded-LDA, Topic, and TF-IDF Models.
- Presidential Pardons:** Coordinated 5 person team to pull data from White House archives, FEC, and news sources to identify influenced pardons.

Crowe, LLP NetSuite Cloud Consulting, Chicago, IL

Business Technology Intern (June 2021 - August 2021)

- Led design and implementation of an Excel VBA enhancement for a client's C-suite to optimize production reporting for a 450-staffed center.
- Utilized Design Thinking to ideate an Access/Sharepoint/PowerBI solution to create KPIs to manage capacity, support, and project management.

Singularity University, Remote

Software Developer (May 2020 - December 2020)

B-Corp providing experts in exponential technologies

- Co-Authoring a white paper on Algorithmic Bias for corporate membership holders; Developed and maintained 2 internal data applications written in R Shiny for membership tracking and recommendation systems; Implemented front end features for a PHP Laravel application and R web app.

Code Ninjas, Oswego IL

Sensei - Instructor (April 2019 - August 2019)

- Taught Scratch and JavaScript to 7-14 year olds in the classroom and one on one setting; Organized effective IT management for 30 computers.

Weblinx Inc. Oswego IL

Web Developer- High school Intern (June 2018 - May 2019)

- Enhanced and optimized over 30 WordPress sites for various local clients in an agile setting using PHP, SCSS, JS, and Cpanel.

LEADERSHIP EXPERIENCE

A³ Design, Columbus, OH

COO/Founder (December 2021 - Present)

- Won The Ohio State President's Buckeye Accelerator (\$50k) and Venturewell Initial Accelerator (\$5k); Participating in Seachange and Venturewell Programs for creating a Refreshable and Repairable Braille Display for those who are blind. Created legal documents, financial statements, and strategy memos alongside Project Management and Market validation infrastructure.

OSU Big Data Analytics Association

President (January 202 - December 2021), **Exec. Board Liaison** (January 2020 - December 2020)

- Managed multiple projects with internal and external clients like Honda, AEP, LexisNexis, Google, TDAI, and OSU Departments.
- Led an executive board of 14 to organize workshops and special programming twice a week; implemented the "flywheel" workflow concept to facilitate 7 internal initiatives ranging from recruitment, education, and sponsorships for 300+ members.
- POLICSI 4998 Computational Research Methodology-** Created 60 hours of data analytics, zero-to-hero educational workshops for 27 enrolled students and 260 auditing over 2 years; Taught as a pilot course in the Political Science department, in use at tOSU Data Analytics Masters program.
- Open Data Insights and Narrative Research Lab -** Launched and managed a lab of 60 students and 6 projects from 2021- 2022 with clients including Honda, AEP, and tOSU departments: (Business, Political Science, Biology, Social Sciences). Led 3 Political Science teams.

See3D, Inc. Columbus, OH

Head of Strategy and Operations (January 2020 - December 2020)

- Implemented and integrated 501(c)(3) nonprofit services from vendors, TechSoup, and Google Administrator and met with industry leaders on best practices. Led a 7- month plan to hire/manage a team of 12 volunteers in marketing and educational departments to serve a grant.

EDUCATION

SKILLS

The Erdos Institute-Data Science Bootcamp

August 2022 - December 2022

Created an LSTM Classifier to classify political speeches using PyTorch

The Ohio State University- B.A. Economics

August 2019 - May 2022

National Buckeye Scholarship, Undergraduate Research Apprentice, Honors Research Scholarship, Undergrad Research Scholar

Python(PyTorch, NumPy, Pandas, Selenium, BeautifulSoup, NLTK, SpaCy, Object-Oriented), AWS(EC2, Lambda, S3, IAM, SageMaker, RDS), GCP, R Shiny, Java, JavaScript (Firestore, JQuery), SQL, Git, Firebase, HTML5, Bash, CSS, WordPress, PowerBI, Tableau, Azure DevOps, MS Office Suite, Agile, Sdlc, Natural Language Processing

AWARDS: Eagle Scout, AWS & Microsoft Student partner (2019-2020)

INTERESTS: Yoga, Chess, Legos, Hiking, Golf, Homelab, Jazz, Classic Rock

