

Katherine Oung

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EDUCATION

Vanderbilt University

GPA: 3.92

Bachelor's in Computer Science and Political Science, Minor in Data Science

Expected: December 2025

Memberships: John Seigenthaler Scholarship, Kovner Foundation Scholarship, Kappa Theta Pi Technology Fraternity

EXPERIENCE

Software Engineer and Data Editor

Jun. 2022 – Ongoing

The Vanderbilt Hustler Newspaper

Nashville, TN

- Started Data and Web team, creating QA and deployment pipeline and developing curriculum for 15+ staffers
- Created custom web designs with **CSS/HTML/Javascript**, leveraging **REST APIs** for database management
- Oversaw production of 120+ data visualizations with data analyzed in **R** and **Python**, serving 52K+ readers
- Created internal document reading, scraping, and reporting tools used by 150+ person team, written in **Typescript** using natural language processing, **React.js**, **Svelte**, and **Node.js**

Data Analytics Intern

Jun. 2024 – Aug. 2024

New York Times Games

New York, NY

- Built, QAed, and automated **SQL** and **Jinja** ETL pipelines to process data from over 18M+ users
- Used **Python** to build a clustering model that segmented user behavior, for use in predictive conversion modeling
- Created dashboards and reports to communicate trends, KPIs and strategic recommendations to stakeholders

Dow Jones Technology Intern

Jun. 2023 – Aug. 2023

Indianapolis Star

Indianapolis, IN

- Built responsive and searchable **Django dashboard** of 100K+ state employees' compensation data
- Generated data insights for a transportation accident report, analyzing 200K+ lines of data in **Python** and **R**
- Spearheaded/led data analytics efforts for 50+ person team, garnering 400k+ monthly page views across 6 projects

Code Developer Intern

Jan. 2023 – May 2023

Nashville Arts and Business Council

Nashville, TN

- Deployed **RShiny web application** for 30+ stakeholders that synthesizes insights from an annual city-wide survey
- Cleaned, conducted data integrity tests on, and shaped 1K+ lines of survey response data for visualization
- Contributed 5K+ lines of exploratory data analysis and interface development code to codebase using **Git**

Freelance Web Developer

Jan. 2024 – Ongoing

Various

Remote

- Collaborated with clients to design **Figma** prototypes then transform them into **CSS/HTML/Javascript** websites with **Node.js** backend
- Implemented backend content management system incorporating **OAuth 2.0** and **Google API** integration

RESEARCH

Research Assistant, Data Subteam

Aug. 2022 – Dec. 2023

Research on Conflict and Collective Action Lab at Vanderbilt University

Nashville, TN

- Contributed 5K+ lines of code including wrangling and exploratory data analysis on 2K+ lines of data examining prejudice faced by refugees in Uganda
- Leveraged **BERT/BART** in **Python** to train a ML model descriptively label 10K+ lines of protest event data
- Developed script in **R** to transform raw interview transcripts to clean data, leading to 15% increase in efficiency

Research Assistant

Jan. 2022 – Aug. 2023

Latin American Public Opinion Project Lab at Vanderbilt University

Nashville, TN

- Utilized 500K+ lines of data to build statistical models and data visualizations in **R** and **Stata**
- Published a data-driven report on Latin American citizens' political opinions in academic journal
- Proofread and revised 7 reports by testing/debugging fellow researcher's code in **Stata**

SKILLS

Languages: Java, Python, SQL, R, Stata, Typescript, JavaScript, HTML/CSS

Libraries and Frameworks: React, Node.js, Next.js, Django, RShiny, JUnit

Tools: Git, APIs, Figma, Tableau, Datawrapper, Flourish, Adobe Creative Cloud