Thomas Serrano

Pasco, WA. (509) 539-2432 . serrat@uw.edu . github.com/serrat839

SUMMARY OF QUALIFICATIONS

- Collaborative team member, experienced at engaging with multiple projects at once
- Understands and utilizes CI/CD pipelines to automate code deployment
- Experienced in database management and web development
- Familiar with Azure website hosting and authentication
- Experienced in R, Python and Java, Express, SQL, Docker
- Articulate and able to convey ideas to stakeholders with varying levels of technical knowledge both verbally and in written form

WORK EXPERIENCE

Data Engineer, Pacific Northwest National Laboratory (Richland, WA) 2022 - Present

- Using Python and PANDAS, sanitized and organized large data files to be used by different scientists within the National Security Directorate
- Developed a Python package to help researchers load and parse and organize large datasets into a relational database
- Generated visualizations using large and unique data to help market datasets for sale within the lab
- Wrote code for antiquated hardware that extracts metadata from said hardware to help accelerate research

Funds To Vote, Data Scientist/Backend Engineer (University of Washington) 2021

- Collaborated with a team of Informatics student to create a website to help inform American voters about the funding sources of senators and representatives
- Leveraged Google's representatives API, OpenSecrets funding API, and ProPublica bills API to create an accurate portrayal of funding and voting habits of senators and representatives
- Developed a backend written with Express.js to deliver data to our frontend
- Utilized docker to package and manage each microservice that our website relies on
- Created bash scripts to automate the deployment of our website hosted on Digital Ocean

mRkov, Data Analyst/Lead Software Developer (University of Washington) January 2020 – May 2020

- Collaborated with a graduate student to create an R package that allows novice R users to quickly aggregate, sanitize, tokenize, and simulate large bodies of text or twitter timelines
- Used Markov Chain Monte Carlo simulations to replicate bodies of text given to the program (3000 tweets at a time due to Twitter's API limitations)
- Created an R Shiny app so that users who cannot program may also use and experiment with the R package
- Presented a poster of the project at the University of Washington Undergraduate Research Symposium 2020

EDUCATION

University of Washington, Seattle Expected June 2022

- Informatics Data Science. GPA 3.72