Nicholas **Anthony**

DATA SCIENTIST · SOFTWARE ENGINEER

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Skills

Languages	Python, Go, React, Rust, SQL
Skill Sets	Web Scraping, Data Analysis, Data Pipelines, Machine Learning, CLIs, REST APIs, Web Dev (Full Stack), Data Viz
Tools	MongoDB, PostgreSQL, Tableau, REDCap, GithubActions
Deployment	GCP, AWS, Heroku, Docker, Digital Ocean, Netlify/Vercel
Frameworks	Nuxt, NextJS, serverless-functions (FaaS), JAMstack, CobraCLI, FastAPI

Experience

University of Kentucky
Lexington, KY

DATA ENGINEER — *Dec. 2020 - Present*

- Built CLI application to extract drug mentions from text records using Rust and string similarity metrics
- Developed Tableau Web Data Connectors to directly connect web-based APIs to Tableau for team utilization
- Built decision tool web-application for healthcare providers regarding PCT levels
- Created FL-Health-Charts website scraper to automate retrieval of online data
- Performed network analysis of Google Scholar publications. Transformed analysis into interactive web application
- Utilized NLP machine learning techniques to extract drug names, dosages, and routes from unstructured EMS (text) records
- Developed geocoding and geospatial analysis automation pipeline (using Go) for Chicago Medical Examiner Case Archives
- Built and published command line utility (using Go/Rust) to extract drug names from raw text including misspellings
- Migrated team to GitHub for open-source work

MatBoss
Minneapolis, MN

SOFTWARE ENGINEER — *Feb. 2020 - Present*

- Deployed full-stack Analytics platform using Docker with FastAPI backend and Vue frontend
- Developed Universal Data model to standardize/validate data and reduce errors throughout organization
- Built user-based feedback system to assist with data error reduction/elimination
- Released open-source wrestling package on PyPI for standard wrestling data models/containers
- Created various charts and infographics for marketing on social media

Global Fortification Data Exchange (GFDx)
Remote

SOFTWARE ENGINEER — *July. 2021 - Present*

- Migrated architecture from existing out-sourced services to in-house solutions using JAMstack
- Built static content website and admin dashboard for data stewards
- Implemented data modeling, validation, and standardization across organization
- Hired web developer and supervised development of frontend dashboards
- Created automation pipeline for survey data submissions

Raise Leaders
West Palm Beach, FL

FULL-STACK DEVELOPER — *June. 2020 - Dec. 2020*

- Built full-stack web application using django backend and bootstrap frontend
- Developed attendance tracking system for virtual zoom classes
- Build avatar system using rank-based badges to encourage youth participation

Veritas Wrestling Systems
Clearwater, FL

OWNER & DEVELOPER — *Sept. 2017 - Aug. 2019*

- Deployed first publicly accessible database for wrestling using django, heroku, and postgresql
- Engineered CLI and GUI data collection software using tkinter to collect information in real-time
- Built predictive models to determine likely match outcomes
- Created user-dashboard for fantasy wrestling to increase marketability and fan base

Rasmussen University
Ocala, FL

SCHOOL OF TECHNOLOGY PEER TUTOR — *Nov. 2019 - Dec. 2020*

- College Reading and Learning Association (CRLA) Level 1 Certified Tutor
- Updated University resources for Python and tutored Computer Science students on basic programming principles

Research

geoPIPE: Geospatial Pipeline for Enhancing Open Data for Substance Use Disorders Research

ACCEPTED FOR PRESENTATION (AMIA)

- A paper on improving open datasets using geospatial analysis in an end-to-end data pipeline.

Opioid overdoses increase at home during the COVID-19 stay-at-home order period in Cook County, Illinois

PUBLISHED

- A paper on observational analysis of opioid overdoses during COVID-19 lockdown in Cook County.
- Available at: https://doi.org/10.1016/j.focus.2022.100007

Social Determinants of Health from Electronic Medical Records of Patients with Substance Use Disorders during the "Triple Wave"

PENDING REVIEW

- A descriptive paper on SDOH in EMRs for patients with SUD.
- Part of RO1 "STIMuLINK" grant funded by CDC.

Education

Psychology	*University of Florida*
BACHELOR OF SCIENCE	*July. 2013 - May. 2017*
Learning and Cognition	*Florida State University*
MASTER OF SCIENCE	*May. 2018 - Dec. 2019*
Computer Science	*Rasmussen Uniersity*
BACHELOR OF SCIENCE	*Feb. 2019 - May. 2020*
Data Science	*The Data Incubator*
FELLOW	*May. 2020 - August. 2020*

Extracurricular Activity

Head/Assisstant Wrestling Coach	*US*
YOUTH - COLLEGIATE	*Nov. 2015 - PRESENT*

- 5th place finish at Greco Roman World Team Trials (2018).
- Coached athletes in proper technique.
- Utilized growth mindset to foster positive team environment.

Rock Climber	*Indoors/Outdoors*
	2018 - PRESENT