Douglas Krouth

Software Engineer

Phone 920-883-6799 LinkedIn https://www.linkedin.com/in/douglaskrouth/ GitHub https://github.com/DouglasKrouth/

E-mail douglaskrouth@gmail.com Website https://www.douglaskrouth.com/

Experience

Software Engineer Jun 2023 – Present

CIBO Technologies

• Worked alongside climatology and computer vision research teams to maintain environmental modeling software using Python, Scala, Bash and Kubernetes.

- Developed Python and Scala simulation auditing pipelines used to apply for global carbon registry programs.
- Responsible for maintaining Kubernetes-deployed Ray clusters and Python machine learning stack for a team of computer vision researchers.
- Maintainer of multiple Python clients used to interface with geospatial REST services.

Software Engineer Mar 2022 – Jun 2023

Schneider National Inc.

- Back-end developer for a Flask-based optimization engine prototype used by 20 internal associates.
- Primary maintainer of a zero-downtime Java application responsible for hourly scheduling approximately 10,000 shipment opportunities across 3 lines of business.
- Implemented a Python text processing workflow that saved \$40,000 USD in annual consulting expenses.
- Coordinated project management for a team of software developers working on a cloud-based machine learning product using Azure, Python and Docker.
- Responsible for architecture reviews and performance analysis of data science and supply chain scheduling models.

Associate, Data and Reporting Team

Oct 2021 - Mar 2022

HORNE - Government Services

- Responsible for development and administration of grant funding reports for state and federal government stakeholders using Python, Microsoft Power BI, and MS SQL Server.
- Maintained 10 Python web scrapers used to generate funding datasets on Azure VM's.

Petroleum Data Science Intern

Jun 2020 - Dec 2020

Kwik Trip, Inc.

- Worked with financial and petroleum analytics teams to analyze current and potential marketing trends across 800+ store locations using MS SQL Server databases, Power BI reports, and Python.
- Winner of Kwik Trip team undergraduate applied data science competition.

Education

B.S. Applied Mathematics; Minor in Computer Science

Sep 2017 - Aug 2021

University of Wisconsin - La Crosse

- Research grant recipient USGS, UWL LTRM Topological Data Analysis partnership
- ONE Campaign campus president, math tutor, UWL Mathematics Department office assistant

Projects

- Freelance Microsoft Office 365 admin and Power BI development for McMurphy Homes in Gulfport, MS.
- Volunteer programming for Police Data Accessibility Project (PDAP)
- N-gram text analysis on community resource, funding requests (La Crosse Habitat for Humanity, La Crosse County)

Skills

Programming Languages Experienced: Python, Bash, SQL Competent: Scala, Java Learning: Rust

Software / Tools Linux (Ubuntu), Docker, Kubernetes, Git, Azure (AKS, APIM, VM),

AWS (S3, CodeArtifact, ECR, EC2), SQL (MS, Oracle, SQLite, Postgres), Vim