

Douglas Krouth

Software Engineer

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Experience

Software Engineer

Jun 2023 – Present

CIBO Technologies

- Worked with crop and climatology scientists to implement changes to core simulation software and adjacent supporting projects using Python and Scala
- Developed Python build automation tools to integrate scientific modeling packages into existing Jenkins and ArgoCD workflows
- Active maintainer of internally developed software with regular code and implementation review

Software Engineer

Mar 2022 – Jun 2023

Schneider National Inc.

- Software development contributor on multiple enterprise-level Python, R, and Java projects
- Coordinated Agile project management for a small team of software developers working on a cloud-based machine learning product
- Responsible for software system implementation, architecture reviews, and performance analysis of data science, supply chain scheduling, and web API products
- Performed code reviews and system deployments to assist research, operations, and prototype efforts

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, MS SQL Server, and Azure virtual machines

IT Support Specialist (Freelance)

Jul 2021 - Dec 2021

McMurphy Homes LLC

- Company-wide software implementations involving website design, data management with Google Drive and MS Office 365, MS Power BI, and MS Power Automate

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

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 (1.5 year duration)
- 2019 Kwik Trip applied data science competition – Team leader of 1st place group
- Text analysis project (n-gram, phrase structure) for La Crosse County - Habitat for Humanity
- ONE Campaign campus president, math tutor, UWL Mathematics Department office assistant

Skills

Programming Languages

Proficient: *Python, Java, SQL, Scala, R* || Basic Knowledge: *C++, C*

Software / Tools

Linux, Docker, Kubernetes, Git, Azure (AKS, APIM, VM), Jupyter, PagerDuty, DynaTrace, Power BI, SQLite, SQL (MS, Oracle, SQLite), Flask, Selenium, MS Office Suite, Vim