

# Douglas Krouth

## Software Engineer

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## Experience

### Software Engineer

*Jun 2023 – Present*

*CIBO Technologies*

- Worked with climatology scientists to maintain crop simulation product stacks using Python and Scala
- Implemented validation pipelines for auditing simulation accuracy of core product offerings
- Debugged GRPC issues related to geospatial data warehouse services running on Kubernetes
- Active maintainer of a Kubernetes-based machine learning stack used for geospatial image recognition

### 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 an Azure-based machine learning product
- Responsible for maintaining constant up-time Java applications running on Red Hat Enterprise Linux which handled supply chain scheduling for thousands of loads across multiple LOB

### 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, MS 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 1<sup>st</sup> 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, Scala, Bash, SQL, Java, HTML*  
Studied / Side-Projects: *Rust, C, C++, LISP, Javascript*

### Software / Tools

Linux, Docker, Kubernetes, Git, Protobuf, AWS (S3, ECR, CA, EKS), Azure, Jupyter, DynaTrace, Power BI, SQL (MS, Oracle, SQLite), Vim