### Colin Woods

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##### Generative AI Developer

**Business Solutions | Organizational Data Science Leadership | Service Excellence**

Educated, computer-science/data-scientist professional with experience providing the leadership and support needed to drive the achievement of key organizational business goals and objectives. Able to leverage software design principles, data science, and business best practices with innovation to deliver frameworks to organize data and extract and interpret meaning to drive cost-saving/operational effectiveness. Proven strength in building and maintaining long-term, professional relationships with strategic business partners based on the effectiveness of the business solutions delivered. Early adopter of GenAI technologies, I have worked on building and training nueral networks for OCR and Computer Vision purposes, and I have had the honor of competing in an enterprise level Google GenAI Hackathon. Excited to combine recent experience with education to provide impactful results while leading in fast-paced, dynamic business environments.

# Areas of Expertise

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| --- | --- | --- |
| * Relational Database Management * Big Data & Machine Learning * Software Design * Data Modeling | * Data Science Best Practices * Statistical Analysis & Data Mining * Business Process Improvements * Stakeholder Communication | * Strategy & Execution * Data Consulting * Dashboards & Reporting * Cloud-based AI Solutions |

**Technical Proficiency**

Python, C++, C, JAVA, Golang, Object Oriented Programming, AWS, GCP, Git, Azure, SQL, SQL Server

BASH, Powershell, Python, Scripting, Agile, Jupyter Notebooks, RBDMS, GenAI

Oracle, APIs (SOAP and Rest), Docker/Containers, Android Mobile Programming, ML Algorithms

R, SAS, JavaScript, Microsoft Office Suite, Azure DevOps, Prompt Engineering

**Certifications**

AWS Certified Cloud Practitioner

Microsoft Certified: Azure Data Fundamentals, Microsoft Certified: Azure AI Fundamentals

Microsoft Certified: Azure AI Engineer Associate, Microsoft Certified: Azure Fundamentals

Automation Specialist Level 1 TOSCA

Coursera: ETL and Data Pipelines with Shell, Airflow, and Kafka/Coursera: Introduction to Business Analytics with R

Server +

**Professional Experience**

**TRANSITIONAL TECHNOLOGY SUPPORT TECHNICIAN** April 2024 – August 2024

***Intermountain Health,*** *Denver, CO (3 month contract)*

* Exceled at system administration while working with Information Technology installation and setup at new Lutheran Hospital
* Oversaw network administration, ensuring hospital workstations had correct patches, network hardware, and IP setup
* Provided quality assurance, testing, and troubleshooting support across different teams at the hospital.
* Maintained and supported PC software applications on hospital computers.

**ASSOCIATE CONSULTANT** 2022 - 2023

***Sogeti,*** *Denver, CO*

* Served as an Associate Consultant, providing wide-ranging leadership and support on the following projects:

Humana Healthcare – RGX – Business Rules Testing & DMAS – Automation Services

* Learned and synthesized knowledge of manual business rules testing to serve as a liaison for developing new automation frameworks with the Automation Services Team.
* Worked to develop skills with and become competent with TOSCA and TOSCA DI and built high-level knowledge of business rules and automation amalgamating in increased productivity.
* Communicated and coordinated with automation teams and business rules product owners on offshore manual testing.
* Proactively tracked Business Rules requirements, release management, and version control in Azure DevOps.

Humana Healthcare – DMAS – Data Management

* Practiced team leadership, providing task management and deadline setting for the offshore team, and wrote and executed complex SQL queries to mine member-related data for testing teams.
* Studied queries of gradually increasing complexity to hone personal knowledge and skillset in downtime.
* Coordinated and led offshore team by tracking test data request status and ensuring completion by deadline.
* Maintained and cataloged unique member data used for data requests and tracked the usage of Golden data.
* Oversaw and delivered synthetic data requests, helping to coordinate database refreshes, and closed data requests for internal testing teams within the Azure DevOps ticketing system.
* Notable achievements while in the position included:
  + Increased operational efficiency of the UAT and DMAS team at Humana by decreasing the turn-around time of data requests.

Banner Health – Identity and Access Management Operations Admin

* Worked with the existing IAM Ops team to help Banner with account management through Wyoming Hospital's Go-Live event, in addition to helping with incident management and ticketing during the Go-Live.
* Worked on Cerner and Microsoft AD account creation and deletion for hospital staff and provided user credentials and access as provisioned by management.

**SERVICE DESK TECHNICIAN II** 2017 - 2022

***Mountain West Farm Bureau Insurance,*** *Laramie, WY*

* Handled incident management and escalations for proprietary claims software and the Office 365 suite for offices across three states.
* Completed hardware support and operating system installation, including reimaging, and installed and provided electronic assistance to company staff.

**CLASSROOM SUPPORT TECHNICIAN** 2019 - 2020

***University of Wyoming,*** *Laramie, WY*

* Provided wide-ranging classroom technology support for UWYO faculty experiencing technical difficulties, including network and A/V support.
* Worked to set up and maintain video conferencing equipment and maintained, tracked, and inventoried all audiovisual equipment across campus.
* Fulfilled the ticketing system’s demands and aided in troubleshooting student issues.

**Education**

**Master of Science, Artificial Intelligence & Machine Learning** – Drexel University, Philadelphia, Pennsylvania, (Current)

**Bachelor of Science, Computer Science** – University of Wyoming, Laramie, WY, (2022)

Minor: Statistics, Concentration: Big Data

Senior Design Final Project – Automated Puzzle Solver

Technologies: Python, OpenCV, TkInter, PyGame, SciPy, NumPy

* Working as a team, we used the OpenCV library in Python to create an Automated Puzzle Solver application.
* Designed the UI using PyGame for the application, including buttons for photo upload, settings, and configurations.
* Through a series of complex puzzle reading steps that store edge information and measurements in arrays, culminating in a genetic algorithm technique used to select the ideal solution, we were able to solve jigsaw puzzles of sizes well over 1000 pieces.

Machine Learning Final Project – Ensemble Stock Market Forecasting

Technologies: Python, Pandas, statsmodels, SciPy, NumPy

* My team used different forecasting techniques independently and then came together to create an ensemble of all our different approaches.
* Utilized the SARIMA time series method in Python to look for seasonal trends in our stock market dataset. My teammate used Harmonic Regression.
* Ultimately, we could not get the best fit for the data. However, our results did relatively well predicting upward and downward trends in the test set.