Colin Woods

Associate Consultant

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PROFILE SUMMARY

- Success driven and focused computer scientist with a broad skillset in software development, data science, and Machine Learning & AI.
- Strong software dev skills in Python, C++, and Java.
- Skillful at designing, training, testing, and validating Machine Learning models from the ground up.
- Highly effective at working with vast quantities of data, capable of writing advanced SQL queries in production level environments
- Performance geared individual with a detail oriented and perfectionistic eye.

TECHNICAL SKILLS

- Python
- C++
- C
- Java
- Data Science
- Mobile Programming (Android)
- AWS
- MySQL Server
- APIs (SOAP and REST)

- Golang
- SQL
- AI/Machine Learning
- Statistical Analysis
- JavaScript
- GCP
- Azure
- Oracle
- R

CERTIFICATIONS

- AWS Certified Cloud Practitioner
- Microsoft Certified: Azure Data Fundamentals
- Microsoft Certified: Azure AI Fundamentals
- Microsoft Certified: Azure AI Engineer Associate
- Automation Specialist Level 1 TOSCA

- Coursera: ETL and Data Pipelines with Shell, Airflow and Kafka
- Microsoft Certified: Azure Fundamentals
- Coursera: Introduction to Business Analytics with R
- Server +

RELEVANT COURSEWORK

- Algorithms and Data Structures
- Machine Learning
- Android Programming
- Linux Programming
- Linear Algebra
- Applied Multivariate Analysis
- Design and Analysis - Statistical Experiments

- Discrete Mathematics
- Software Design
- Intro to AI
- Database Systems
- Cybersecurity
- Regression Analysis

EDUCATION

- **University of Wyoming**

  B.S. in Computer Science

  with Big Data Concentration,

  Minor in Statistics

  Sept 2017 – May 2022

PROFESSIONAL EXPERIENCE

Sogeti (Part of Capgemini)

Associate Consultant   06/2022 – 08/2023

(Laid off as part of mass corporate restructuring following budget cuts)

Google GenAI Hackathon –

06/2023 – 08/2023

- I was honored by being nominated by Sogeti to represent the company in this Hackathon
- We collaborated as teammates to create an MVP for a GenAI Business use case
- We created a FoodQuest app that used a GenAI chatbot to suggest food choices that could be custom catered to someone's allergy, health, diet, and fitness goals.
- The app was a webapp that ran via Flask from a Python backend, it connected to VertexAI foundational chatbot models that we prompt tuned, and prompt engineered. The app was hosted on google services using Google App Engine

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

06/2023 – 08/2023

- Learned and synthesized knowledge of manual Business Rules testing to serve as a liaison with developing new automation frameworks with the Automation Services Team.
- Worked to develop skill with and become competent with TOSCA and TOSCA DI
- Built high level knowledge of business rules and automation amalgamating in increased productivity.
- Communicated and coordinating with automation teams, business rules product owners, offshore manual testing.

Humana Healthcare – DMAS – Data Management

01/2023 – 06/2023

- Increased operational efficiency of the UAT and DMAS team at Humana by decreased turn-around time of data requests.
- Wrote and executed complex SQL queries to mine member related data for testing teams.
- Practiced queries of gradually increasing complexity to hone my knowledge and skillset in my down time.
- Built domain knowledge of Data Management and Testing teams as well as unique database structures.
- Coordinated and lead offshore team by tracking test data request status and insuring completion by deadline dates.
- Maintained and catalogued of unique member data used for data requests, as well as tracking usage of Golden data.
- Oversaw and delivered synthetic data requests and helping to coordinate database refreshes.

Banner Health – Identity and Access Management Operations

08/2022 – 09/2022

- Worked with existing IAM Ops team to help Banner with account management through Wyoming hospital's GoLive event.
- Worked on Cerner account creation and deletion for hospital staff
- Helped with incident management during the GoLive
- Provided user credentials and access as provisioned by management

University of Wyoming

Student in Senior Design   06/2022 – 05/2023

Senior Design Final Project – Automated Puzzle Solver

- 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.
- Created a thorough Software Requirements Specification Document for our project
- 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.

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

Machine Learning Final Project – Ensemble Stock Market Forecasting
- My team used different types of forecasting techniques independently, and then came together to create an ensemble of all our different approaches.
- I utilized the SARIMA time series method in Python to look for seasonal trends in our stock market dataset. My teammate used Harmonic Regression.
- In the end we were unable to get the best fit for the data, however our results did predict upward and downward trends in the test set relatively well.

Technologies: Python, Pandas, statsmodels, SciPy, NumPy