Cameron Falls

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Education

Missouri University of Science & Technology — May 2023
B.S. Computer Science, *summa cum laude* — **GPA: 4.0/4.0**
Minor: Mathematics
Courses: -Computer Networks -Linear Algebra -Algorithms

Experience

The Cigna Group — St. Louis, MO
TECDP Lead Analyst – Application Developer — Dec 2024 – Present

- Automated the verification of claims data stored in the Pega Platform by utilizing the Cucumber Behavior-Driven Development framework. Used modular Java functionality to verify claims information in order to ensure accuracy of process workflow.

The Cigna Group — St. Louis, MO
TECDP Senior Analyst – Application Developer — Jul 2024 – Dec 2024

- Implemented automated testing of Application Programming Interface (API) responses using Python scripting in a Jenkins pipeline, allowing for the automatic confirmation of API responses against expected results when changes occur in the platform.

The Cigna Group — St. Louis, MO
TECDP Senior Analyst – Software Engineer — Jul 2023 – Jul 2024

- Assisted in the migration of Fast Healthcare Interoperability Resources (FHIR) data applications to Amazon Web Services (AWS) Health Lake by modifying Python scripts and SQL queries in DynamoDB to use modular functionality.
- Provided support to production applications by monitoring AWS Glue job and AWS Step Function runs, communicating with users and developers, investigating issues, and rerunning jobs as necessary.
- Developed a Python script using the Boto3 library to automate the retrieval of AWS Glue job runs, filtering from a list of job names stored in an S3 bucket and aggregating the run data to identify commonly failing jobs and error patterns.
- Engineered SQL queries to tabulate and filter ServiceNow ticket resolution data from a Microsoft SQL Server database to aid in identifying the type and frequency of common issues.
- Collaborated with the development team to resolve an issue with data inconsistency in a URL pattern; performed root cause analysis to identify the inconsistency by querying an API using Postman and assisted in deploying the corrected code from the development environment to production.
- Researched and documented FHIR resources on the AWS cloud to aid in resolving tickets by promoting familiarity with the extract, transform, and load (ETL) pipeline flows of the resources.

Multirotor Design Team — Rolla, MO
Chief Software Engineer — Aug 2022 – May 2023

- Directed the software team in a sprint-based development cycle in order to meet targets for competition completion.
- Coordinated between hardware and software teams to ensure successful deployment of autonomous code to drone.

Ameren — O'Fallon, MO Remote
Digital Software Intern — May 2022 – Aug 2022

- Created an Oracle SQL database and PowerBI dashboard to track support tickets with a third-party in an effort to generate useful metrics to grade the level of support that Ameren receives.
- Updated AutoSys scripts to improve reliability and process flow in order to reduce error occurrence.

Multirotor Design Team — Rolla, MO
Computer Vision Team Member — Aug 2019 – Aug 2020, Aug 2021 – Aug 2022

- Developed advanced computer vision algorithms to process camera data and provide relevant information to the flight team.
- Implemented an algorithm to detect the location of a module by using NumPy and OpenCV to find the four holes on the module, filter out noise, and calculate the center point, which enabled the flight team to attempt retrieving the module.

Ameren O'Fallon, MO Remote
App Development Student Co-op May 2021 – May 2022

- Utilized Python to automate the updating of supervisor contacts by querying an employee database for current location and contact information in an effort to allow workers quick access to area supervisor names and phone numbers.
- Designed a script to create patrol points and associate points with previous data using ArcPy geoprocessing tools in order to assist vegetation ground patrol teams.
- Created scripts to generate and email PDF documents based on input to safety forms with the aim of providing confirmation and documentation of safety inspection results to inspectors.
- Developed JavaScript widgets to display a moving radar and lightning strikes on a web map for use by the transmission operations team to identify hazards that can cause outages.

Multirotor Design Team Rolla, MO
Computer Vision Team Lead Aug 2020 – Aug 2021

- Led and mentored members of the vision team to work together to achieve competition goals.
- Managed computer vision software development by creating and assigning tasks to vision team members in an effort to make progress towards objectives.

Certifications

Amazon Web Services Certified Solutions Architect - Associate
Amazon Web Services Training and Certification, June 2024
Expires: June 2027
Relevant skills: -AWS Cloud -AWS Services -Cloud Architecture -Cloud Infrastructure

Amazon Web Services Certified Cloud Practitioner
Amazon Web Services Training and Certification, November 2023
Expires: June 2027
Relevant skills: -AWS Cloud -AWS Services -Cloud Technologies -IT Services

Skills

Languages and Libraries:	-Python	-C++	-NumPy	-OpenCV	-SQL
	-JavaScript	-Java	-Boto3		
Technical:	-AWS	-Git	-Linux	-Unit Testing	

Honors & Activities

- Organized a philanthropic event for Cigna's St. Louis office, engaging over 150 employees in packing 100 backpacks of school supplies to donate for children in the Ferguson-Florissant School District and creating over 100 cards for students to read on their first day. Planned the event, engaged with outside partners for financing the supplies, created a budget for purchases, and helped run the event.
- Learned about organizing data to identify trends through peer collaboration and mentor instruction in ACM Data from August 2019 to September 2020. Used Python to process, organize, and analyze data.
- Graduated Summa Cum Laude from Fort Zumwalt West High School in May 2019 with 3.9/4.0 GPA.
- Aided in raising environmental awareness as part of Environmental Club from February to May 2016.