Desiree Pelletier

pelletier.desiree@gmail.com | 508.954.6652 | Webster, MA | desireepelletier.com
github.com/dpelli | linkedin.com/in/desiree-m-pelletier

Technical Skills

Languages: Python, SQL, JavaScript, HTML/CSS
Frameworks: FastAPI, Flask, Django, React
Operating systems: Linux, macOS, WSL, Windows

Other: AWS, REST APIs, Git, GitHub, microservices, bash scripting, network troubleshooting, relational databases, Docker, Kubernetes, CI/CD

Education & Certifications

AWS Certified Solutions Architect - Associate | October 2023
Coding Dojo OAKLAND, CA | Full Stack Developer Certification - Python & Web Fundamentals | Spring 2021
University of Rhode Island KINGSTON, RI | Bachelor of Science, Applied Mathematics | Spring 2016

Experience

Pearson
Software Developer | June 2022 - May 2023
- Lead efforts in researching, implementing, and knowledge sharing of best practices for project structure and dependency management when utilizing the AWS Python CDK framework.
- Created an API Gateway to collect and parse JSON and XML response data from other internal APIs as part of a team effort to convert a monolithic Java application to a serverless Python application.
- Automated a severely manual process, saving internal users hours of manual file manipulation, by implementing an AWS serverless web app which generated zipped Excel files for download based upon user form input.

TechnologyAdvice
Junior Software Engineer | October 2021 - June 2022
- Optimized a form data processing application by improving data parsing techniques, reducing total processing time as well as manual developer intervention time from hours to minutes.
- Increased observability by implementing various Slack alerts and scheduled notifications through monitoring database metrics and data processing jobs, reducing the need for repeated manual and complicated queries.
- Reduced processing time for a brittle legacy application by improving decoupling of services through the conversion of synchronous Flask endpoints to FastAPI asynchronous endpoints.
- Improved scalability for a CSV generating process by moving rapidly growing reference data from a local json file to a MySQL database table.

Warren Rogers Associates, LLC.
Manager, Technical Support Services | August 2021 - October 2021
- Managed a small support team, responsible for internal data analytics assistance and technical support both internally and externally in order to facilitate 24/7 leak detection for over 3,000 petroleum retail sites.
- Oversaw remote device installation and upgrades to ensure deadlines were met with efficiency and all required documentation was collected.
- Initiated the addition of several Linux aliases to the in-house device build process for tedious commands used exceedingly often which greatly improved support team happiness.

Systems Engineer | May 2017-August 2021
- Provided on-call support for critical data streaming issues and leak detection alerts, mitigating several potentially catastrophic petroleum leaks and helping clients remain in regulatory compliance.
- Created a Python GUI to automatically generate configuration files using data pulled from AWS S3 as well as enable editing of existing configuration files.
- Utilized bash and Python scripting to automate repetitive tasks such as pushing software updates to thousands of remote Linux devices or manipulating hundreds of CSV and XLSX files at a time.

Data Analyst | June 2015-May 2017
- Performed statistical data analysis on hundreds of petroleum retail sites daily to monitor for leak detection and other revenue impacting site issues.
- Generated compliance reports and communicated findings directly to clients in easy-to-understand terms.

Personal Projects

Handy Helper

A web application to create and assign jobs amongst users. The objective was to practice developing and deploying a full stack web application using the Django framework, AWS EC2, and Nginx.

- app.desireepelletier.com
- github.com/dpelli/handy_help

Fibonacci Calculator

A web application to calculate the Fibonacci value for a given number. The objective was to practice developing and deploying a full stack React app using a multi-container Docker configuration, Travis CI, and AWS Elastic Beanstalk.

- react-app.desireepelletier.com
- github.com/dpelli/complex