

# 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  
**Operating systems:** Linux, macOS, WSL, Windows

**Other:** AWS, Rest APIs, Git, microservices, bash scripting, root cause analysis, network troubleshooting, relational databases, Docker, 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

---

## Projects

### Handy Helper

A full stack Django application to create and assign jobs amongst users. Deployed using AWS EC2, Nginx, and uWSGI.

- [app.desireepelletier.com](http://app.desireepelletier.com)
- [github.com/dpelli/handy\\_help](https://github.com/dpelli/handy_help)

### Fibonacci Calculator

A full stack React application to calculate the Fibonacci value for a given number utilizing Redis (AWS Elastic Cache) to display previously calculated values and Postgres (AWS RDS) to display previous user input. Deployed using a multi-container Docker configuration, Travis CI, and AWS Elastic Beanstalk.

- [react-app.desireepelletier.com](http://react-app.desireepelletier.com)
- [github.com/dpelli/complex](https://github.com/dpelli/complex)

---

## Experience

### NCS Pearson IOWA CITY, IA

Software Developer | June 2022 - May 2023

- Lead efforts in researching, implementing, and knowledge sharing of best practices for project structure and dependency management for 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 application.
- Implemented an internal AWS serverless web app which filtered API response data based upon form input and generated zipped Excel files for download. The application automated a severely manual process, saving users hours of manual file manipulation.

### TechnologyAdvice NASHVILLE, TN

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. MIDDLETOWN, RI

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.
- Worked with clients to plan remote data collection device installation procedures and schedules.

- 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 remote device build process for tedious commands used exceedingly often which greatly improved support team happiness

**Warren Rogers Associates, LLC. MIDDLETOWN, RI**

Systems Engineer | May 2017-August 2021

- Coordinated with client to convert the protocol used between hundreds of Warren Rogers on-site data collection devices and the client's POS systems to reverse/outbound connections to enable more secure sensitive data transfer.
- 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.
- 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.

**Warren Rogers Associates, LLC. MIDDLETOWN, RI**

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.