

ANTHONY CATALINA

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Skills

- **Languages & Frameworks:** React, TypeScript, JavaScript, Python, Flask, HTML, CSS, Bootstrap, MySQL
- **Tools:** Microsoft Office, Git, AWS, Visual Studio, VS Code, PyCharm, MySQL Workbench, SureMDM
- **Operating Systems:** macOS, Windows, Linux, Unix
- **Development Practices:** Agile Scrum methodology, Git-based version control.

Professional Experience

Contract Firmware Engineer

Hach Company (Actalent)

April 2025 – Present

Loveland, CO

- Maintain a large-scale TypeScript/LitElement monorepo utilizing MVC and atomic UI architecture.
- Implement and manage UI submodules for several projects, supporting water analysis displays.
- Implemented custom ESLint rules and configurations, and developed Jest unit tests for UI components.

Software Engineer

Philadelphia Scientific, LLC

September 2022 – April 2025

Montgomeryville, PA

- Designed and developed software for Battery Manager systems, optimizing operational workflows.
- Developed web applications for Fortune 500 clients, improving user interaction and operational efficiency.
- Provided troubleshooting support and resolved issues promptly, ensuring customer satisfaction and system stability.

Software Engineer

Regulus Group, LLC

June 2021 – September 2022

Atlantic City, NJ

- Enhanced user interfaces, improving data input processes and reporting capabilities.
- Optimized database performance, reducing query turnaround times.
- Developed dashboard-style web applications for real-time and historical system monitoring.

Software Projects

Water Analysis UI

TypeScript, LitElement, React, HTML/SCSS, Jenkins, Bitbucket, MQTT, Jest

- Developed and maintained the user interface for the Rialto project, supporting real-time water analysis and measurement visualization for internal engineers, lab technicians, and clients.
- Implemented scalable, modular UI components using Atomic UI and Modular MVC architecture.
- Integrated data from devices via HTTP requests & MQTT subscriptions, enabling accurate and timely updates on UI.

Battery Manager Operations Display

React, TypeScript, JavaScript, Bootstrap, Python, SQL, AWS

- Led the development of a web application that displays real-time battery maintenance activity across distribution centers.
- Incorporated interactive graphs and tables for real-time data visualization.
- Hosted on AWS S3, with automated deployments via GitHub Actions, streamlining deployment processes.

Battery Manager Touch Computer App

React, TypeScript, JavaScript, Bootstrap, Python, SQL, AWS

- Developed a web application for battery maintenance and management, optimizing tracking and reporting.
- Developed and deployed robust REST APIs with Python and SQL.
- Managed devices through SureMDM, and implemented across major distribution centers (Target, TJX, Uline).

Education

Rowan University

Glassboro, NJ

December 2020

- Bachelor of Science: Computer Science