

# ANTHONY CATALINA

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## Skills

- **Languages & Frameworks:** React, TypeScript, JavaScript, Lit, Python, Flask, HTML, CSS, Bootstrap, SQL
- **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**  
*Loveland, CO*

**Hach Company (Actalent)**

**April 2025 – Present**

- Maintain a large-scale TypeScript/Lit 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**  
*Montgomeryville, PA*

**Philadelphia Scientific, LLC**

**Sept. 2022 – April 2025**

- 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**  
*Atlantic City, NJ*

**Regulus Group, LLC**

**June 2021 – Sept. 2022**

- 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, JavaScript, Lit, 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