

ANTHONY CATALINA

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Skills

- Languages & Frameworks: React.js, Vite, HTML, CSS, Bootstrap, Javascript, Python, Flask
- Tools: Microsoft Office, Git, Visual Studio, VS Code, PyCharm, MySQL Workbench, Eclipse
- Operating Systems: macOS, Windows, Linux, Unix
- Knowledge and experience in Agile scrum development

Relevant Experience

Software Engineer **Philadelphia Scientific, LLC** **September 2022 – Present**

- Designing, developing, and testing software components for Battery Manager systems.
- Designing and developing web-based applications and GUIs used by distribution center employees for clients such as Target, Uline, and TJX.
- Day to day support activities, resolving system bugs, assisting with customer/site questions.

Software Engineer **Regulus Group, LLC** **June 2021 – September 2022**

- Upgraded user interface for both inputting data requests and outputting analytical results.
- Improved database efficiencies and turnaround times.
- Developed dashboard-style web pages showing overall real-time and historical system performance.

Student Software Developer **Lockheed Martin** **January 2020 – May 2020**

- Developed a software tool/website that automates monitoring online sources of vulnerability information and alert feeds from sources such as the National Vulnerability Database and the Department of Homeland Security.

Software Projects

Battery Manager Operations Display

- Programmed web app to display distribution centers' battery maintenance activity. Runs on Raspberry Pi devices.
- Frontend developed with **Vite + React.js** and **Bootstrap**. Real-time data fetched continuously using **REST API**.
- Displays real-time battery maintenance activities for distribution centers in interactive graphs and tables.
- Developed **API** on the backend with **Python/Flask** and **MySQL** databases.

Battery Manager Touch Computer Web App

- Worked to develop web app for maintenance, tracking, and management of industrial batteries.
- Frontend developed using **React.js** and **Bootstrap**, with Axios requests to fetch data from the backend.
- Developed extensive **API** on the backend utilizing **Python** and **MySQL** databases.
- Data from backend used for displaying tables, charts, and other graphs on the Touch Computer display.
- Application used by forklift and battery room operators at distribution centers such as Target and TJX.

Spectrum Analysis Tool

- Sole developer of user interface for a software tool used to run analysis on flight radar data.
- Developed extensive **REST API** using **Python** and **Flask**.
- Web pages developed with **HTML**, **CSS**, **Bootstrap** and **Javascript** within a **Jinja** templating engine.
- Results displayed on a dashboard-style web page, including interactive heatmaps created with **Leaflet.js**

Education

Rowan University **Glassboro, NJ** **January 2021**

- Bachelor of Science: Computer Science
- Honors: Dean's List (Fall 2016, Spring 2017, Fall 2017, Spring 2020)