

# ANTHONY CATALINA

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## Skills

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- 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

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**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

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### 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

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

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