

# Carlos A. Machin

## Software Engineer

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### Summary

Software Engineer with experience in full-stack development workflows and focused on delivering high-quality experiences to end-users.

### Work Experience

#### Software Engineer

GE Healthcare, Waukesha, WI

*Jul 2023 - Present*

- Developed frontend & backend features for a web-based platform using Angular, Typescript, Node, and AWS to improve the lifecycle management of GE Healthcare's products.
- Developed cloud-based services using AWS to enable observability of GE Healthcare's infrastructure.
- Designed and built a web application using Angular and Java to visualize data gathered by CT scanners.
- Developed a portable application using Electron to facilitate field engineer workflows and improve efficiency by 90%.
- Collaborated with various teams of highly-skilled engineers & leaders in agile environments to develop and ship high-quality software at a fast pace.
- Participated in recruiting efforts by interviewing and screening early-career candidates.

#### Software Engineer Researcher

Bio-Optics Oceanography Laboratory, Lajas, PR

*Dec 2021 – May 2023*

- Designed and built a web application using React and MQTT capable of communicating remotely with an Autonomous Surface Vehicle and visualizing its captured data across 2D and 3D planes.
- Developed features for an ASV using Python to capture data from ocean floors.
- Led migration efforts to modernize the laboratory's informational website using HTML, CSS, and Javascript.

#### Software Engineer Intern

GE Healthcare, Remote

*May 2022 - July 2022*

- Designed and built a web application capable of visualizing Computed Tomography data remotely.
- Prepared and submitted software engineering documentation.

#### Computer Hardware Intern

EMSYS Design, Guaynabo, PR

*June 2019 - Aug 2019*

- Performed maintenance on servers by inspecting hardware and software using Linux.
- Monitored company inventory to keep databases updated.

### Education

#### B.S. Software Engineering

University of Puerto Rico, Mayaguez, PR

*Aug 2017 - May 2023*

- 3.5 GPA
- NCAS-M Fellow

### Skills

- **Languages:** HTML, CSS, JavaScript, TypeScript, Python, Java, C++, MATLAB, SQL
- **Technologies:** Angular, React, React Native, Next.js, Vite, Jasmine, Chai, Jest, Playwright, Cucumber, Electron, Node, Docker, Shell, AWS, Figma, Git, Claude, GPT, CI/CD, Powershell, Microsoft Office Suite, Tailwind, Windows, Linux, Mac, Grafana

## **Projects**

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### **Portfolio Website**

Personal Project

*Jan 2023 – Present*

- Developed a personal website using React to document my work history, showcase my research, and display my software projects.

### **Greenlease**

Software Engineering Senior Design Project

*Jan 2023 – May 2023*

- Architected and built a full-stack web application using React, Python, and SQL to help students from the University of Puerto Rico find rent and lease accommodation near the university.

### **Email App**

Software Engineering Course Project

*Aug 2022 – Dec 2022*

- Architected and built a full-stack web application using React, Python, and SQL where users can add friends, send emails, edit emails, and see some cool stats.

### **Solar-Powered Race Car**

University of Puerto Rico, Mayaguez, PR

*Feb 2020 - Dec 2021*

- Developed telemetry gathering techniques for a solar powered race car using C++ .
- Developed an SQL database for storing telemetry data.

## **Certificates**

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- HackerRank Java Certificate: <https://www.hackerrank.com/certificates/d8ff64c7897e>
- HackerRank Python Certificate: <https://www.hackerrank.com/certificates/1a504d147973>
- HackerRank JavaScript Certificate: <https://www.hackerrank.com/certificates/177cf9d6cc1c>

## **Languages**

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- English (Fluent)
- Spanish (Fluent)