

Carlos A. Machin

Software Engineer

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Portfolio Website: <https://cmachin.github.io/portfolio>
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SCAN ME

Software Engineer dedicated to improving skills through hands-on development work. Well-organized and collaborative team player with strong communication and analytical abilities.

Education

Aug 2017 - May 2023

Bachelor of Science: Software Engineering

University of Puerto Rico Mayaguez PR

- NCAS-M Fellow
- 3.5 GPA

Work Experience

May 2022 - July 2022

Software Engineer Intern

GE Healthcare - Remote, WI

- Developed browser-based tools for data visualization.
- Prepared and submitted reports and other documentation about software development.

July 2021 - Sept 2021

Engineer Intern

Instarz - Remote, PR

- Gathered, arranged, and corrected research data to develop 3D models for a lunar habitat.
- Utilized job-related software to perform descriptive and statistical analysis of data.

June 2019 - Aug 2019

Computer Hardware Intern

Emsys - Guaynabo, PR

- Performed troubleshooting to correct computer hardware and software malfunctions.
- Monitored company inventory to keep stock levels and databases updated.

Competencies

- Frontend Development
- Backend Development
- Data Structures
- Database Management
- REST API Development
- Agile/Scrum Environments

Skills

- HTML
- CSS
- JavaScript
- Java
- C++
- MATLAB
- Git
- Python
- React
- Docker
- Node.js
- TypeScript
- Angular
- SQL

Languages

- English (Advanced)
- Spanish (Advanced)

Research

Dec 2021 – May 2023

Bathymetry ASV

Bio-optics Oceanography Laboratory – Lajas, PR

- Developed an informative website for the laboratory.
- Developed a web application for data logging and visualization.
- Developed firmware for an autonomous surface vehicle.

Feb 2020 - Dec 2021

Solar-Powered Race Car

University of Puerto Rico Mayaguez – Mayaguez, PR

- Developed telemetry gathering technics for a solar powered race car.
- Developed a database for storing telemetry data

Projects

Jan 2023 – May 2023

Greenlease

Software Engineering Capstone Project

- Web application that helps students from the University of Puerto Rico find rent and lease accommodations near the university.

Jan 2023 – Feb 2023

Portfolio Website

Personal Project

- Personal website for documenting my work history, showcasing my research, and displaying my coding projects.

Aug 2022 – Dec 2022

Email App

Software Engineering Course Project

- Full stack web application where users can add friends, send emails, edit emails, and see some cool stats.

Aug 2022 – Dec 2022

Doctor Finder App

Software Engineering Course Project

- Web application that searches for doctors near you based on your medical needs.

Certificates

Dec 2020

HackerRank Java Certificate

<https://www.hackerrank.com/certificates/d8ff64c7897e>

Dec 2020

HackerRank Python Certificate

<https://www.hackerrank.com/certificates/1a504d147973>

Oct 2022

HackerRank JavaScript Certificate

<https://www.hackerrank.com/certificates/177cf9d6cc1c>