



# JOSHUA CRUZ CINTRÓN

COMPUTER SCIENCE AND  
ENGINEERING STUDENT

## EDUCATION

University of Puerto Rico- Mayagüez  
B.S in Computer Science & Engineering  
GPA: 3.54  
Expected Graduation Date: May 2022

## SKILLS

- |              |                          |                   |
|--------------|--------------------------|-------------------|
| - Python     | - DevOps                 | - Teamwork        |
| - Django     | - Git                    | - Agile           |
| - Flask      | - Jira                   | - Scrum           |
| - Numpy      | - CI/CD                  | - Leadership      |
| - Matplotlib | - Jenkins                | - Public speaking |
| - JavaScript | - Heroku                 | - Poetry          |
| - Java       | - Apache                 |                   |
| - ReactJS    | - PostgreSQL             |                   |
| - SQL        | - Containers             |                   |
|              | - AWS Management Console |                   |
|              | - Google Cloud Console   |                   |
|              | - REST                   |                   |

## CONTACT ME:

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## EXPERIENCE

### Teacher's Aide (Advanced Programming Course)

UNIVERSITY OF PUERTO RICO-MAYAGÜEZ  
AUGUST 2019 - CURRENT DATE

- Collaborate with Professors, and other Aides to provide useful and diverse learning resources for students taking the course.
- Create challenging class projects for applying core course concepts such as **Object Oriented Programming, recursion, and sorting**.
- Help students understand coursework by providing individual support during office hours.

### Confidential Systems Analyst Programmer

JUDICIAL BRANCH OF PUERTO RICO  
JUNE 2018 - AUGUST 2019

- Developed full-stack web applications & **RESTful** interfaces using **Python, Django, JavaScript, PostgreSQL, Apache**, and **Linux**.
- Worked on an agile development team employing Scrum framework.
- Optimized application testing by designing framework for unit test design using Selenium webdriver tool.

### Computer Engineering Team

UNIVERSITY OF PUERTO RICO - MAYAGÜEZ  
AUGUST 2017 - JUNE 2018

- Designed algorithm for autonomous navigation of maritime robot using machine vision and digital sensors.
- Built communication interface between **Raspberry Pi 3, Arduino** for motor control, and navigation.
- Worked with multidisciplinary group of Engineering students with different project roles.

### Computer Science Research Student

UNIVERSITY OF PUERTO RICO - HUMACAO  
AUGUST 2015 - JULY 2017

- Applied Python programming language and molecular dynamics simulations to research in material science.
- Extracted and analyzed data from molecular dynamics simulations using **Python's Matplotlib**, and **Numpy** modules.
- Designed algorithms for image processing of confocal laser microscope images.

## PERSONAL PROJECTS

- **SemesterKeeper** - RESTful interface & web client for organizing courses into a dynamic curriculum.
- **CollegeHousing** - RESTful interface & mobile app for finding college lodges near campuses using tag-based filtering to refine results.
- **SRC** - Team of cross-functional developers providing resources and workshops on software tools and concepts.