

Joshua Cruz Cintrón

Computer Science and Engineering Student

Education

2017-08 - Current **Bachelor of Science: Computer Science and Engineering**
University of Puerto Rico Mayagüez - Mayagüez, Puerto Rico
GPA: 3.43
Expected Graduation: December 2022

Work History

2021-06 - 2021-08 **Software Engineering Intern**
Bloomberg L.P., New York, USA

- Created an API service that provided quality assurance team datapoints from a live data pipeline using **Python** and internal frameworks.
- Developed microservice for calculating return value for groups of stocks under a certain index, to QA newer calculation methods.
- Leveraged internal interface to add plugin for parsing data from index providers that was ultimately used to publish production level index data.

2020-02 - 2021-05 **Full-Stack Developer Intern**
Abartyshealth, San Juan, PR

- Developed **Python** scripts to process data from millions of patients and transform it for monthly company reports
- Deployed **Lambda functions** in **AWS** to form pipeline that identifies and sends data of interest to other entities
- Created company support website using **Django** web framework

2019-11 - 2021-05 **Backend Developer**
RUMBus, Mayagüez, PR

- Increased team productivity, and automated quality assurance
- Created CI/CD pipeline using **Gitlab**, **Docker**, **Jest**, and **Heroku** to test and deploy backend service for client-side teams.
- All changes to source code are now automatically integrated in less than 5 minutes, and tested thoroughly before deployment

2018-06 - 2019-08 **Confidential Systems Analyst Programmer**
General Court of Justice, Mayagüez, PR

- Created web applications using **Python**, **Django**, **JavaScript**, **jQuery**, and **PostgreSQL**
- Developed, tested, and deployed application used by more than 300 Judges in Puerto Rico
- Analyzed and migrated 5 million rows of data from legacy database to new application
- Optimized application testing by designing wrapper for unit testing using **Selenium** Web driver tool

Projects

Curriculum Algorithm (API)

- **RESTful** API that takes the dependencies between courses in a curriculum and traces the shortest path (least semesters) towards graduation

College Housing (API)

- A Restful API that uses GIS to find housing near predetermined colleges and filtering by common features desired by students

Contact

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Skills

Proficient:

- Python (Django, Flask, pandas, NumPy, SciPy, Matplotlib)
- Software Testing
- Git
- Backend development

Intermediate:

- JavaScript (Node.js, React, jQuery, TypeScript)
- Java
- SQL (PostgreSQL, MySQL)
- HTML & CSS

Experience with:

- AWS (EC2, Lambda, S3, DynamoDB, Batch, etc.)
- Docker
- C++ (OpenFrameworks)

Activities & Volunteer Work

2020 – Hackathon: “Hack-a-Virus”

- Create solutions regarding the COVID-19 pandemic. **2nd Place**

2019 – Computer Science Workshops

- ASEE initiative for teaching programming fundamentals to high school students **Volunteer**.