

# Rafael O. Vega Rodriguez

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## WORK EXPERIENCE

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### Aptima Puerto Rico

San Juan, Puerto Rico

Software Engineer Intern (Remote)

August 2023 - Present

- Develop a Java SonarQube custom plugin to analyze all company source code and integrate reports to an internal database using a YAADA Python script.
- **Skills:** Java, Python, Docker, SonarQube, YAADA, GitLab, YouTrack and Office Suite

### Holberton School

San Juan, Puerto Rico

Tutor (Hybrid)

May 2023 - Present

- Facilitated collaborative study sessions, organized technical workshops, and actively engaged in meetings with the Lead Software Engineer to enhance student experiences, skills, and the staff-student connection in a tutoring role at Holberton School.
- **Skills:** Bash, Git, Visual Studio Code, Discord, Google Meets, Teamwork and Time Management

### Puerto Rico Department of Education

Caguas, Puerto Rico

Computer Science Teacher (Hybrid)

September 2019 - June 2022

- Achieved 20% increase in student achievement through tailored lesson plans, coordinated entrepreneurship activities, contributed to school technology initiatives, and maintained effective communication.
- **Skills:** Planning, Time Management, Teamwork, Teaching, Adaptability and Self-Motivation

### National Institute for Energy and Island Sustainability, UPR

San Juan, Puerto Rico

Graduate Researcher (Hybrid)

April 2018 - June 2018

- Coordinated stakeholder meetings and promoted energy system transformation in Puerto Rico, while analyzing energy cooperatives and investigating their integration potential.
- **Skills:** Stakeholder Coordination, Research, Data Analysis and Public Speaking

### Cooperative League

San Juan, Puerto Rico

Researcher Officer (On-Site)

August 2016 - July 2017

- Conducted data analysis, authored a comprehensive guide, and coordinated stakeholder meetings in the cooperative sector.
- **Skills:** Research, Data Entry, Data Analysis, Data Visualization and Public Speaking

## EDUCATION

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### Holberton School

San Juan, Puerto Rico

Software Engineer - Computer Science

September 2022 - Present

- Completed a project-based learning program in computer science, gaining skills in low-level programming, object-oriented programming, database management and web development.
- Currently enrolled in a machine learning program, learning to develop and apply machine learning models to solve real-world problems.
- **Relevant projects:** Express-O, AirBnB Clone, Shell Command Line Interpreter, Printf, Sort and Search Algorithms

**University of Puerto Rico – Rio Piedras Campus**

San Juan, Puerto Rico

*Master of Management and Development of Cooperatives and Social Organizations*

August 2016 - June 2018

- Completed a comprehensive program covering cooperative theory, legal frameworks, governance, financial management, marketing, social responsibility, and global perspectives on cooperatives.
- Gained practical experience through internships and fieldwork, conducted independent research on energy cooperatives, and engaged with a diverse community of scholars and professionals in the cooperative sector.

**University of Puerto Rico – Mayagüez Campus**

Mayagüez, Puerto Rico

*Bachelor of Economics with a minor in International Affairs*

August 2011 - June 2016

- Completed a rigorous economics program, honing analytical and critical thinking skills through coursework and research projects, while actively engaging with the economics community.
- Gained hands-on experience as an undergraduate researcher, contributing to a publication on a non-PRASA aqueduct pilot plan through research, data analysis, and policy development.

**SKILLS & ABILITIES**

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**Languages:** Spanish (Native) & English**Programming Languages:** C, Java, Python, HTML, CSS, JavaScript, Flutter, R, SQL & NonSQL**Tools:** Bash, Git, Visual Studio Code, MySQL, Firebase, Docker, YouTrack & Office Suite**Soft-Skills:** Self-learning, Problem Solving, Time Management, Public speaking, Teaching & Teamwork