

Rafael O. Vega Rodriguez

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WORK EXPERIENCE

Holberton School

San Juan, Puerto Rico

Tutor (Hybrid)

June 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

Express-O (Project)

San Juan, Puerto Rico

A marketplace built with Flutter, Firebase and PayPal (Hybrid)

May 2023 - Present

- Designed and developed a web application empowering coffee shop owners to establish digital stores, facilitating seamless customer ordering and efficient in-store pickups.
- **Skills:** Bash, Git, Visual Studio Code, Flutter, Firebase, PayPal, Trello, Teamwork and Time Management

AirBnB Clone (Project)

San Juan, Puerto Rico

A replica of AirBnB built with Python, HTML, CSS, JS and MySQL (Hybrid)

May 2023

- Developed a front-end website displaying static and dynamic content, and an integrated API for communication between the front-end and back-end data
- **Skills:** Bash, Git, Visual Studio Code, Python, HTML, CSS, JavaScript, MySQL, Teamwork and Time Management

Shell Command Line Interpreter (Project)

San Juan, Puerto Rico

A replica of Shell built in C (Hybrid)

December 2022

- Developed a command interpreter that operates like a Shell, utilizing system calls with zero memory leaks, implementing signal handling, and offering both interactive and non-interactive modes of usage.
- **Skills:** Bash, Git, Vim, C, Self-learning, Problem Solving, 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

SKILLS & ABILITIES

Languages: Spanish (Native) & English

Programming Languages: C, Python, HTML, CSS, JavaScript, Flutter, R, SQL & NonSQL

Tools: Bash, Git, Vim, Visual Studio Code, MySQL, Firebase, Office Suite and Power BI

Soft-Skills: Self-learning, Problem Solving, Time Management, Public speaking, Teaching and Teamwork

EDUCATION

Holberton School

Software Engineer - Computer Science

San Juan, Puerto Rico

September 2022 - Present

- Graduating July 2023 from a project-based learning program, involving technical skill development related to low-level programming, object-oriented programming, database management and web development.
- **Relevant projects:** AirBnB Clone, Shell Command Line Interpreter, Printf, Sort and Search Algorithms

University of Puerto Rico – Rio Piedras Campus

Master of Management and Development of Cooperatives and Social Organizations

San Juan, Puerto Rico

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

Bachelor of Economics with a minor in International Affairs

Mayagüez, Puerto Rico

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.