Rafael O. Vega Rodriguez

(787) 586-3699 | r.vega27@outlook.com | https://github.com/rvegarodz

WORK EXPERIENCE

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*

Express-O (Project) San Juan, Puerto Rico
A marketplace built with Flutter, Firebase and Stripe (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, Stripe, 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*

EDUCATION

Holberton School   San Juan, Puerto Rico
Software Engineer - Computer Science   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   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

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