

Victor Manuel Valadez

Houston, TX

281-744-5329 • mvictorvaladez@gmail.com • [linkedin.com/in/mvictorvaladez](https://www.linkedin.com/in/mvictorvaladez) • github.com/victorvaladez1 • victorvaladez.com

EDUCATION

University of Houston, Houston, TX

Expected: May 2026

Bachelor of Science in Computer Science, Minor in Mathematics

Relevant Coursework: Algorithms, Data Structures, Software Engineering, Operating Systems, Database Systems

EXPERIENCE

CTE Computer Science Intern

January 2024 - Present

Harmony Public Schools, Houston, TX

- Mentored **30+ students** in **Java** and **Python** programming by delivering personalized lessons and hands-on exercises, resulting in a measurable increase in **AP Computer Science** pass rates.
- Developed autonomous control programs using **Java** for the **FIRST FTC** robotics team, enhancing robot performance.
- Coached **15+ students** for regional coding competitions by teaching advanced **algorithms** and **data structure** optimization, improving their problem-solving skills.

CERTIFICATIONS

JPMorgan Chase Software Engineering Virtual Experience Program - Forage

September 2024

Autodesk Inventor Certified User - Autodesk

May 2022

Introduction to Programming using Java - Microsoft Technology Associate

April 2021

Introduction to Programming using JavaScript - Microsoft Technology Associate

April 2020

PROJECTS

AccountAbility - Personal Finance Tracker (*React, Node.js, Express, MongoDB*)

GitHub: github.com/victorvaladez1/accountability-finance • Live Demo: accountability-finance.vercel.app

- Built a full-stack **MERN app** with **JWT authentication** to manage accounts, transactions, and investments.
- Integrated **Finhub API** to track real-time holdings valuation and used **Recharts** for interactive portfolio visualizations.
- Implemented an AI chatbot using the **OpenAI API** for personalized financial coaching.

JP Morgan Chase Code for Good Hackathon 2024 (*React, SQL, Flask*)

GitHub: github.com/cfgtexas24/Team-2

- Worked with a team of five college students to build a **full-stack** app for Abide Women's Health Services, a local nonprofit.
- Led **backend** development by creating **Flask APIs** for efficient communication between the **frontend** and **database**.
- Developed and optimized **SQL queries** to support the nonprofit's data management needs.

WellAware - Oilfield Operations Dashboard (*React, Flask, PostgreSQL*)

GitHub: github.com/victorvaladez1/wellaware-platform • API: wellaware-sim.onrender.com

- Developed a **full-stack** dashboard app for simulated oil well management, featuring real-time telemetry and crew tracking.
- Built backend **REST APIs** with **Flask** and **SQLAlchemy** to simulate oilfield hardware telemetry and support role-based access.
- Created a responsive **React frontend** with **Axios** to visualize live well data, alerts, and maintenance logs.

TECHNICAL SKILLS

Programming Languages & Frameworks: C++, Java, Python, JavaScript, HTML, CSS, R, Node.js, Express, Flask

Databases & Tools: MongoDB, PostgreSQL, SQL, Git, GitHub, Postman, VSCode, Android Studio, PyCharm, Fusion 360, Revit, OpenCV