

# Victor Manuel Valadez

U.S Citizen • Houston, TX

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## 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.

## PROJECTS

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

GitHub: [github.com/victorvaladez1/accountability-finance](https://github.com/victorvaladez1/accountability-finance) • Live Demo: [accountability-finance.vercel.app](https://accountability-finance.vercel.app)

- Built a full-stack **MERN app** with **JWT authentication** to manage accounts, transactions, and investments.
- Integrated **Finnhub 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](https://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.

### Postly - Full-Stack Blog Platform (*React, Node.js, Express, PostgreSQL*)

GitHub: <https://github.com/victorvaladez1/postly> • Live Demo: [postly-blogs.vercel.app](https://postly-blogs.vercel.app)

- Developed a **PERN stack** web application with **secure user authentication** and **CRUD functionality**.
- Implemented **REST APIs** and **PostgreSQL** queries to manage users, posts, and comments.
- Deployed the application with **environment-based** configuration and production-ready error handling.

### Forged In Steam - Top-Down Action RPG (*Unity, C#, Photoshop*)

Team of 9, University of Houston Interactive Game Development Course

- Programmed real-time combat, dodge, knockback, upgrade systems, and UI mechanics using **C#** and **Unity**.
- Collaborated in a **Scrum-like** environment with weekly standups and bi-weekly faculty reviews to track progress.
- Presented the final build to UH Game Dev alumni and local indie developers at the end-of-semester showcase.

## TECHNICAL SKILLS

**Programming Languages:** C++, Python, Java, JavaScript, HTML, CSS

**Frameworks:** React, Node.js, Express, Flask

**Databases & Developer Tools:** PostgreSQL, MongoDB, Git, GitHub, Postman, Linux (WSL), VS Code, Vercel, Render