Juan Villarreal |
Software Engineer

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EDUCATION

Springboard

- Software Engineering Program, Certificate   Feb. 2023 – Jan 2024

South Texas College   *McAllen, TX*

- Bachelor's degree in Computer & Information Technologies   *3.63 GPA* | Aug 2020 - May 2022
- Associate's degree in Computer Science   *3.46 GPA* | Aug 2015 - May 2018

EXPERIENCE

Student Fellow   Feb 2023 – Jan 2024
Springboard

- Mastered foundational skills in front-end and back-end web development, databases, and data structures and algorithms.
- Built a React.js-based application for Magic the Gathering deck creation, leveraging PostgreSQL and Node.js to help users build a deck from all existing cards.
- Developed a Pokémon guessing game web app with Flask and Node.js, incorporating PostgreSQL for data storage.

IT Support Specialist   Aug 2015 - Present
Edinburg CISD   *Edinburg, TX*

- Created a local work order ticketing system to ensure issues were addressed in a timely manner.
- Developed proficiency in networking fundamentals and troubleshooting techniques.
- Created complex & interactive Google Sheets using advanced formulas and data manipulation techniques.
- Cultivated a proactive approach to problem-solving and innovation in technical support.
- Diagnosed, deployed, and repaired various devices including desktops, laptops, chromebooks, projectors, and sound systems.

PROJECTS

Jobly | *React.js, PostgreSQL, Express.js, JWT, Bcrypt, Jest, JSX, CSS*   *Fullstack*
Project Link: https://github.com/jvill171/react-jobly-frontend | Live App: https://jvill171-react-jobly.surge.sh/

- Developed a full-stack mock web application to allow users to apply for positions in various companies.
- Implemented and executed automated unit tests for the API backend models, ensuring accurate storage and manipulation of game data within the database.
- Designed and implemented a user-friendly interface including a login functionality, required to apply for jobs and keep track of user jobs.

PkmnGssr | *Python, Jinja2, Flask, PostgreSQL, Flask-WTF, Flask-Bcrypt, Git*   *Fullstack*
Project Link: https://github.com/jvill171/Pkmn-Gssr | Live App: https://pkmn-gssr.onrender.com/

- Developed a full-stack web application/game in which users must guess a randomly selected pokemon in either a timed or untimed mode, integrating the third-party *PokéAPI* API to access the required data.
- Implemented and executed automated unit tests for the API backend models, ensuring accurate storage and manipulation of game data within the database.
- Utilized Flask for server-side logic and routing, leveraging PostgreSQL as the RDBMS for database management and storage.
- Designed and implemented a user-friendly interface included optional login functionality for tracking game records and profile personalization.

GI-Calculator | *Vue.js, Vite, Tailwind, HTML/CSS, Git, Firebase*   *Fullstack*
Project Link: https://github.com/jvill171/Pkmn-Gssr | Live App: https://pkmn-gssr.onrender.com/

- Developed a tool to help users calculate the material cost for leveling up characters for the game Genshin Impact.
- Implemented a real-time chat for users to exchange messages, facilitated by Firebase.
- Utilized Firebase to enable secure user authentication with personal email or integrated third-party login options.

GIMI-MUI | *Python, PyQT, QT Designer*   *Desktop App*
Project Link: https://github.com/jvill171/GIMI-MUI | Mod site: https://gamebanana.com/tools/17278

- Developed a user interface to facilitate the use of an existing modding tool with the goal of helping less tech-savvy users more easily manage their game mods.
- Integrated execution of helper scripts from the existing mod tool, bypassing the need for interaction with the console in order to be more user-friendly.
- Accumulated over 250 downloads in about 1 month, competing with similar tools created by other users.

TECHNICAL SKILLS

Languages: HTML/CSS, Python, JavaScript, TypeScript, SQL (Postgres)

Frameworks: React.js, Vue.js, Flask, Express.js, Node.js, SCSS, Bootstrap, Tailwind

Developer Tools: Git, GitHub, Docker, VS Code, Visual Studio, Jest, Jasmine, Firebase, NPM

Libraries: SQLAlchemy, jQuery, Axios