

Vale Rodriguez

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Portfolio: [Vale Bela](#)

OBJECTIVE

Passionate student seeking opportunities to apply a blend of data science, SQL, web development, and interactive design. Skilled in Python, C#, SQL Server, Unity, Flask, and data visualization. Interested in building creative technical solutions and engaging interactive experiences.

EDUCATION

Rutgers University–New Brunswick

Bachelor of Science in Information in Technology and Informatics

Minor: Art History

Expected Graduation: 2026

CERTIFICATIONS

IS-42.A: Social Media in Emergency Management (FEMA)

SKILLS

Programming & Tools: Python, C#, SQL, SQL Server, Git, VS Code, Streamlit, Unity

Data & Visualization: Pandas, Matplotlib, Requests, Data Analysis, Interactive Dashboards

Web & Game Development: Flask, HTML/CSS, JSON, Game Prototyping, Web App Deployment

PROJECTS

Spotify Audio Dashboard – *Python, Pandas, Matplotlib*

This project analyzes how musical characteristics vary across tracks:

- **Tempo:** Shows typical speed ranges and outliers.
- **Energy vs Danceability:** Dense clusters reveal popular combinations in modern music.
- **Valence:** Emotional positivity of tracks, highlighting patterns across genres.

- **Top Tracks:** Lists the most popular songs based on Spotify's popularity metric.

By visualizing these features, the dashboard helps explain why certain songs feel energetic, danceable, or emotionally positive.

[Live App](#) [Github](#)

Horror Movies Data Analysis – *SQL, SQL Server*

- Analyzed IMDb horror movies dataset to extract insights on ratings, votes, runtimes, genres, directors, and box office gross.
- Wrote SQL queries to find top-rated, most popular, longest, and highest-grossing horror movies; grouped data by director and year.
- Captured query results with screenshots to visually showcase data exploration and aggregation.
- Portfolio with full SQL scripts and results

[GitHub](#)

Dice Battle Game & Analytics — *Python, Streamlit, Pandas, Matplotlib*

- Built an interactive web app to simulate dice battles between two players and track round-by-round results.
- Implemented real-time metrics, tables, and visualizations of dice totals and cumulative wins.
- Enabled user customization of player names, dice count, and dice type through sidebar controls.
- Provided CSV download functionality for detailed game analytics.
- Deployed live on Streamlit Cloud for interactive portfolio demonstration:

[Live App](#) [GitHub](#)

Vampire Blood Bag Game Prototype – *Unity, C#*

Fast-paced 3D prototype where a vampire collects blood bags, avoids garlic hazards, and returns to the coffin to win.

- Implemented core mechanics including player movement, collisions, and scoring system.
- Tracked basic player metrics (completion time, success/failure rate) for potential data-driven balancing.
- Demonstrates integration of game design, coding, and interactive gameplay.

[Watch Demo](#)

Haunted Rat Adventure Prototype – *Unity, C#*

3D Unity prototype with 2D watercolor art elements. Players control a rat collecting cheese while avoiding a demon.

- Built level mechanics, obstacle interactions, and collectible systems.
- Combined artistic 2D assets with 3D gameplay, highlighting creative technical design.

[Watch Demo](#)

Data Science Salaries Visual – *Python, Pandas, Matplotlib*

Analyzed and visualized salary data for Data Scientist roles across multiple datasets.

- Cleaned, merged, and summarized datasets using Pandas.
- Generated comparative visualizations highlighting salary trends and disparities.

[GitHub](#)

Character-Data-Rank – *Python, Pandas, Matplotlib*

Analyzed Sanrio character rankings (1986–2024) and created CSV summaries and visualizations.

- Identified trends in popularity over time and visualized key patterns for insights.
- Demonstrates data cleaning, manipulation, and visualization skills.

[GitHub](#)

Taxi-Fare Calculator – *Python*

Developed a Python application that calculates taxi fares based on distance traveled.

- Implemented user input validation and modular code structure for maintainability.

[GitHub](#)

Flask_Pin – *Python, Flask*

Built a Flask web application featuring multiple routes, loops, conditionals, and JSON responses.

- Showcased ability to develop interactive web applications and manage backend logic.

[GitHub](#)

