Jorge Perez

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EDUCATION

Hunter College Manhattan, NY
Bachelor of Arts in Computer Science *Aug. 2017 – May 2022*

PROJECTS

Criminal Activity in NYC | *Python* November 2021 – December 2021
- Explored and extracted information on criminal activity in NYC by applying data science techniques on multiple public New York Police Department data sets
- Converted all data sets into data frames with pandas and filtered each data frame for analysis
- Computed the monthly and yearly counts of criminal activity in all 5 boroughs of NYC and showcased the extracted information with multiple plots using Matplotlib

Tic-Tac-Toe | *C++, JavaScript, HTML/CSS, React* September 2021 – January 2023
- Developed a simple tic-tac-toe web game with React
- Trained an agent to learn how to play tic-tac-toe through reinforcement learning
- Implemented 3 different difficulty modes
- Designed animations and an engaging responsive UI with pure CSS

Maze | *C++, JavaScript, HTML/CSS, React, Firebase* November 2021 – Present
- Developed an all maze focused web application with React, JavaScript, and pure CSS
- Implemented a random maze generator with depth-first search, backtracking, and a stack
- Implemented an agent that uses reinforcement learning to traverse and solve a maze in real time
- Designed and built single player and two player offline game modes
- Created a simple online 2-4 player game mode with a real time database from Firebase

Code Boy Portfolio | *JavaScript, HTML/CSS, React, React Router* January 2023 – Present
- Developed a coding portfolio inspired by Nintendo's Game boy Color and old school retro games with React and React Router
- Designed animations and a fun engaging layout with pure CSS
- Implemented a drag and drop feature from scratch with JavaScript and CSS
- Designed a responsive UI that works smoothly in all screen sizes

TECHNICAL SKILLS

Languages: JavaScript, HTML/CSS, C++, Python
Frameworks: React, Node.js
Developer Tools: VS Code, Visual Studio, GitHub, Firebase, PyCharm
Libraries: React Router, pandas, NumPy, Matplotlib, Selenium