Jason Hoang

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Technical Skills

Languages: Python, C, C++, C#, SQL, HTML, CSS

Databases: MongoDB, PostgreSQL

Framework/Tools: Linux, VS Code, Unity, Git, Jira, NumPy, Pandas, Agile/Scrum, MATLAB, LabVIEW

Projects

Asteroids Arcade Game – Unity, C#   February 2024

- Implemented the classic arcade game Asteroids
- Coded the movement of the player spaceship, player death, player respawn and bullet projectiles
- Implemented the random spawning of asteroids in a radius of various sizes
- Coded the collision between bullets and asteroids to destroy asteroids or split them into smaller asteroids
- Kept track of player score and player lives

Pong Arcade Game – Unity, C#   January 2024

- Coded player paddle movements and physics to deal with object collisions
- Created an AI to track the location of the ball and move the computer paddle accordingly
- Added physics to the ball to increase its speed with each bounce
- Set up the game UI and kept track of player scores

Tic Tac Toe Game - Artificial Intelligence Survey - Python   November 2022 - December 2022

- Coded over 270 lines for a Tic Tac Toe game
- Designed the computer's decisions based off random playouts scenarios
- Designed computer to simulate over 5000 start to finish simulated games to determine which next move would have a higher probability of winning a game

Work Experience

Systems Test Engineer Intern – Ballard Power System   January 2019 – August 2019

- Responsible for the maintenance, testing, and troubleshooting of humidifiers
- Built test set ups which include soldering, wiring, securing pipes, setting up barriers, and operating power tools
- Collecting and analyzing data from test stations using LabVIEW, MATLAB, and Excel
- Creating formal documentation for tests which includes safety procedures, test operations, test station specifics, and data findings
- Setting up meetings with engineers and managers to present data findings

Primary Care Paramedic - British Columbia Ambulance Service   September 2015 – Present

- Operate, check, and drive emergency ambulance
- Respond to calls, assess patients, and make decisions based on clinical presentation
- Provide emergency treatments and administer emergency medications to patients
- Present and give hand off reports to other medical staff
- Coordinate with other emergency services during various emergency situations

Education

Simon Fraser University, Burnaby, BC   September 2017 – August 2021

- Bachelor of Science, Major in Computing Science