Jason Hoang

jasonbuihoang@gmail.com | linkedin.com/in/jbhoang | jbhoang.github.io | github.com/JBHoang

Technical Skills

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

Databases: MongoDB, PostgreSQL

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

Projects

React Personal Website – React, JavaScript, HTML, CSS, GitHub   May 2024

- Deployed and hosted React application through GitHub pages
- Designed and implemented personal profile to include Skills, GitHub, LinkedIn, and Resume

Asteroids Arcade Game – Unity, C#   February 2024

- 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 – Monte Carlo Tree Search - Python   November 2022 - December 2022

- Coded and implemented an undefeatable AI using Monte Carlos Tree Search
- Designed AI to simulate 5000 random games each turn to determine the best move

Work Experience

Junior Software Engineer – MDA   July 2022 – September 2022

- Design, code, test, integrate, deploy, debug and document high quality C++ software for the Satellite Ground Segment as part of the Geointelligence Engineering Team

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

- Responsible for the maintenance, testing, and troubleshooting of humidifiers
- Collected and analyzed data from test stations using LabVIEW, MATLAB, and Excel
- Created formal documentation for safety procedures, test operations, test station specifics, and data findings
- Set up meetings with engineers and managers to present data findings

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

- Respond to calls, assess patients, and make decisions based on clinical presentation
- Provide emergency treatments and administer emergency medications to patients
- Coordinate with other emergency services and health care professionals

Education

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

- Bachelor of Science, Major in Computing Science