

# Sepehr Razmyar

UNITY GAME PROGRAMMER

Tehran, Iran

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## Summary

Unity programmer. BS in Computer Engineering in progress. Skilled in Unity & C#. Strong knowledge on design patterns, principles & best practices.

## Skills

<b>Programming</b>	C#, C++, C, Python, Bash scripting, Writing clean, reuseable & readable code
<b>Parallel Programming</b>	Compute Shaders, CUDA, OpenMP, Intel SIMD
<b>Testing</b>	Unit testing, Mocking
<b>Networking</b>	Wireshark, GNS3, Encryption, Network protocols, OpenVPN, Squid Proxy
<b>Tools</b>	Git, Version control
<b>Mathematics</b>	University level math, 3D mathematics
<b>Problem Solving</b>	Algorithms, Data structures, Bit masking
<b>Microcontrollers</b>	Experience with embedded systems design using the Arduino programming environment


## Work Experience

### Pars Cog, University of Tehran

UNITY GAME DEVELOPER

Tehran, Iran

Jul. 2021 - PRESENT

- Currently performing as Software Architect & Unity Developer developing & architecting game components
- Developed 2D & 3D Corsi Block for visual/auditory memory improvement 

### Amytis Games

UNITY GAME DEVELOPER INTERN

Tehran, Iran

Jul. 2019 - Sep. 2019

- Programmed an configurable 2D enemy AI with animations
- Improved their path system from waypoint based to Bezier spline by implementing an editor tool which you can edit the spline in scene view
- Programmed a matchmaking system using Photon Networking
- Programmed camera control for a mobile game

## Projects

### Haft Peykar's Turquoise Dome

SOLO UNITY DEVELOPER

Tehran, Iran

Jul. 2021

- [Haft Peykar](#) is a romantic epic by Persian poet Nizami Ganjavi written in 1197, in this project we can see Turquoise dome
- Responsible for shaders, particles, level design & scripts

### S.P.H.E.R.E

SOLO UNITY DEVELOPER

Tehran, Iran

Jun. 2021

- Based on Trials Evolution's mini game, this game was developed to represent our Xbox Remote Controller

### A Man Looking for His Organs - Global Game Jam 2020

SOLO UNITY DEVELOPER

Tehran, Iran

Feb. 2020

- 2D platformer game developed in 48 hours, with theme of "Repair"
- The player has to fight enemies, gather his organs & shoot his way out

### Prince of Persia's rewind mechanic

SOLO UNITY DEVELOPER

Tehran, Iran

Jul. 2019

- A 3rd person game which you can rewind time like Prince of Persia

### Pacman using A\* algorithm

SOLO UNITY DEVELOPER

Qazvin, Iran

Jul. 2019

- Pacman game where each ghost has different strategy
- Ghosts use A\* algorithm to track Pacman

## Tank Trouble using PyGame

SOLO PROGRAMMER & ARTIST

- Tank Trouble clone developed using PyGame
- Supports multiplayer, Xbox & PS4 controllers
- Implement horde (survival) mode with waypoint based AI
- Implement shotgun, big ball & shield power up

Tehran, Iran

Jan. 2018

## Nerf Gun as a VR Gun Controller

SOLO PROGRAMMER

- Turned a Nerf gun to a gun controller for PC, Xbox, PS4 games which acts as a mouse & keyboard using Arduino
- Pull the trigger in real life, it'll shoot in game
- Reload in real life, it'll reload in game
- Use the buttons & thumb stick to walk, jump, interact etc.
- Works on every FPS game
- Melee in real life, it'll melee in game, check the video for more details

Tehran, Iran

Jul. 2021

## Ballz clone using SDL

SOLO PROGRAMMER & ARTIST

- Ballz clone developed using C++ & SDL for Advanced Programming course
- Add explosion, bricks cracking & creating dust and magnet pulling animation for balls to unify

Tehran, Iran

Apr. 2018

## Legend of Bounca - CPS course project

ANDROID PROGRAMMER

- A physic based ball which bounces based on Android device's gyroscope or gravity sensor
- Responsible for developing & architecting game components
- Implementing physics & collision from scratch

Tehran, Iran

Apr. 2021

## Xbox Remote Controller

SERVER SIDE & ANDROID PROGRAMMER

- Your Android device can act as an Xbox controller
- Support multiplayer, up to 4 players, useful for when you're short on controllers
- Support multiple layouts for different games, e.g., gyroscope layout for driving games
- Supports Unity games & every game that supports Xbox controller

Tehran, Iran

Jun. 2021

## OpenVPN over Proxy |

- OpenVPN which is wrapped in HTTP packet
- Without wrapping in HTTP packet, it can't bypass DPIs

Tehran, Iran

Oct. 2020

## Education

### University of Tehran

Tehran, Iran

BACHELOR OF COMPUTER ENGINEERING

Sep. 2017 - Jun. 2022(Expected

Graduation)

- Studying at Electrical Computer Engineering Faculty of University of Tehran
- Overall GPA: 3.81 / 4
- Thesis project: Developing cognitive games for visual/auditory memory improvement of children & elders - Supervisor: Prof. Hadi(Manouchehr) Moradi

## Certifications

2021 **Core Interaction Programming part of Unity Certified Programmer Exam Preparation Specialization,** 

Coursera

2021 **Neural Networks and Deep Learning,** 

Coursera

## Soft Skills

Hard working

Team working

Continuous learning

Commitment

Responsible

Time management

## Languages

**English** Professional working proficiency

**Persian** Native or bilingual proficiency