Muhammad Yousaf

Lahore, Pakistan

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Portfolio   Linkedin: Muhammad Yousaf

Full Stack Game Developer | Multiplayer Expert| Backend Architect & Web3 Expert

Professional Highlights

- 7+ years of experience in full-stack game development with international studios, contributing to multiplayer, match-3, 2D casual, racing, and shooting games.
- Proficient in Unity (PC/Android/iOS) with expertise in Photon Quantum, Mirror, and Colyseus for real-time multiplayer systems.
- 4+ years of backend development using Node.js, WebSockets, and Docker, delivering scalable and secure game server solutions.
- Specialized in Web3 gaming: integrated wallets like MetaMask and Phantom, managed on-chain/off-chain transactions, and developed scalable P2E and metaverse experiences.
- Adept at implementing social authentication, secure player profiles, and handling large-scale player databases efficiently.
- Experienced in game monetization, API integrations, performance tuning, and contract-based gameplay systems.

Technical Skills

Unity (Client Side):
- Game play programming, AI, multiplayer (Mirror, Photon), PlayFab, Firebase
- Addressable Bundles, Scriptable Objects, modular design, module development
- Performance optimization, memory optimization, smooth game play

Blockchain:
- Wallet : MetaMask, Phantom, Solflare
- On-chain and off-chain transactions
- Token handling and Web3 smart contract interaction
- All Social (SSO) and web3 login

Languages & Back-end:
- Node.js, JavaScript, TypeScript, Colyseus, Python, LUA
- Firebase, Express.js, NestJS(basics), Sentry, .NET Server C#
- Joi, Jest, Chai (Mocha)
- MySQL, PostgreSQL, SQLite, GraphQL, MongoDB, Redis, database ORM

- JSON manipulation, REST APIs, WebSockets
- Web3 Auth, JWT, social media Auth (SSO)

Game Systems:
- Real-time multiplayer architecture (Mirror)
- Player profile, Inventory, stats, progression, achievements
- Game shop systems and in-app purchase validation
- Leader boards, reward systems, friends systems, party systems

Deployment & DevOps:
- Docker, GitHub Actions, CI/CD (GitHub, Gitea)
- VM provisioning, AWS S3 backups
- Postman, Insomnia for API testing

Tools & IDEs: Unity, Rider, WebStorm, Postman, Visual Studio, ClickUp/Jira, Git (GitHub, SourceTree), Swagger

Experience

Salvay **Lahore, Pakistan**
Full Stack Game Developer / Team Lead *Oct 2022 – Present*
- Led the development of multiplayer games **Gnomewarz** and **Moonkart** using **Photon** and **Mirror** networking solutions in Unity.
- Integrated **PlayFab** backend services in **Crystal**, implementing user authentication, leaderboards, cloud saves, and economy systems.
- Developed backend services in **Node.js** for tokenization, player profiles, and game session management.
- Integrated third-party services (auth, analytics, onchin transactions) with modular and reusable APIs, improving development cycle efficiency.
- Mentored junior developers and facilitated agile sprint planning, ensuring timely delivery of critical gameplay features.

CLV Technologies **Lahore, Pakistan**
Senior Game Developer *Nov 2020 – Sep 2022*
- Architected and engineered scalable backend infrastructures using Node.js microservices to power real-time multiplayer (MP) gameplay in cross-platform Unity games (WebGL, Android, iOS), ensuring seamless integration, low-latency performance, and high concurrency support.
- Directed the full development lifecycle of simulation and open-world games for Android/iOS with support for high concurrency and performance.
- Optimized game performance by refining rendering, graphics pipelines, and codebase, resulting in significant FPS gains across target devices.
- Collaborated with design and art teams to prototype, iterate, and polish interactive gameplay systems and UI components.

Game District **Lahore, Pakistan**
Senior Game Developer *Dec 2017 – Aug 2020*
- Delivered multiple Unity titles with monetization integration (AdMob, Unity Ads), collectively reaching more than 1M+ downloads.
- Improved user retention through the implementation of daily rewards, level gating, and achievement tracking.
- Worked across departments to enhance UI/UX polish and gameplay fluidity in casual and hyper-casual mobile games.

Education

Lahore Leads University **Lahore, Pakistan**
M.Phil in Computer Science *2020*
GPA: 3.80

M.Phil Thesis (machine learning)

Machine Learning Application for Acute Leukemia Detection using Mask R-CNN
Developed a deep learning model based on Mask R-CNN to accurately detect and segment leukemic cells from microscopic images, improving diagnostic accuracy and automation in medical image analysis.
Language: Python   —   Frameworks: TensorFlow, Keras   —   Model: Mask R-CNN

Projects

Wire Network: [Wire Games](#)
AI-driven RPG platform – Engineered server-side logic for dynamic storytelling using LLMs. Powered by a custom AI Game Master.
Tech: Web3, Node.js, TypeScript, OpenAI, Redis, WebSockets, S3

Gnome Wars: [Gnome Warz Live](#) OR [Gnome Warz Trailer](#)
Developed multiplayer logic, wallet-based login, and backend integration. Custom development and integration of the party system, friend system and the complete backend
Tech: Node.js, Web3, JWT, S3, Multiplayer APIs, WebSockets

Phonics Zoom – Educational 2D App: [YouTube Demo](#)
Built mini-game modules, interactive animations, and audio feedback systems.
Tech:Unity, C#, Android SDK, Animation tools, PlayFab

MoonKarts (WebGL): [MoonKarts WebGL](#)
Implemented wallet login, real-time multiplayer with Photon, NFT integration and complete backend interaction
Tech:Unity, Photon (Quantum), Solana Wallet Adapter, Web3, Node.js, Blockchain, Postgresql, AWS, CI/CD

Crystale (Epic Games): [Crystale on Epic Games](#)
Designed AI behavior trees and implemented PvE combat logic
Tech:Unity, C#, PlayFab, Addressable, ScriptableObjects, Node.js, Postgresql, Web3 (SSO login)

Stakehouse Web App: [Stakehouse dApp](#)
Developed and integrated backend and real-time wallet transactions
Tech:Unity, C#, ScriptableObjects, Node.js, Postgresql, Web3 (SSO login), blockchain, Ci/Cd

EnAble ALL: [EnAble ALL (IOS store)](#)
Assistive technology app – Contributed to backend; integrated P2E modules for social good
Tech:Unity, C#, Node.js, Postgresql, Web3 (SSO login), blockchain, Ci/Cd

Tales & Conquest (AI-Powered RPG): [Tales & Conquest Website](#)
Contributed to the development of an AI-driven roleplaying game that offers limitless storytelling and exploration. Played a key role in backend development, integrating scalable systems to support dynamic, evolving narratives powered by an AI Game Master
Tech:penAI API, RAG, Node.js, python, Postgresql, websockets, Docker, CI/CD

HoneyLand (Google Play): [HoneyLand (Google Play)](#)
P2E mobile games –Developed complete game play along with token economy integration, backend development and integrations (player profiles, reward mechanics, leaderboard, onchain/offhchain transaction)
Tech:Unity, Firebase, Wallets, Web3, Node.js, REST APIs,Postgresql, AWS, CI/CD

Action and Simulation: [Play Store (1)](#) $\| PlayStore(2)$
$Developed gameplay systems, optimized graphics, and implemented IAP validation$
Tech:Unity, Android SDK, iOS, Firebase, IAP, Ads