Muhammad Yousaf

Lahore, Pakistan

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Portfolio　　Linkedin: Muhammad Yousaf

Senior Node.js Developer | Backend Engineer (MongoDB, MySQL, Express.js)

Professional Highlights

- 7+ years of overall experience in backend development with 4.5+ years of hands-on expertise in Node.js and Python.
- Proficient in building RESTful APIs, WebSockets, and microservices architectures.
- Deep knowledge of database design, query optimization, and working with MongoDB, PostgreSQL, and MySQL.
- Experienced in cloud-native deployments using Docker, AWS, and CI/CD pipelines.
- Integrated AI/ML models into production systems with performance and scalability in mind.
- Delivered reliable, secure, and scalable backend solutions for web, mobile, and game applications.

Technical Skills

Languages & Frameworks::

- Node.js, TypeScript, JavaScript Python
- Joi, Jest, Chai (Mocha)
- Colyseus, Express.js, Sentry

Databases::

- PostgreSQL, MySQL, MongoDB, Redis
- GraphQL, database ORM

AI / LLM Integration::

- OpenAI APIs, RAG pipelines
- Prompt engineering

Tools::　Git, GitHub, Rider, WebStorm, ClickUp, Visual Studio

Blockchain / Web3::

- Wallet integrations: MetaMask, Phantom, Solflare
- Smart contract API interaction, token handling
- Web3 login, JWT authentication, SSO

Deployment & DevOps::

- Docker, GitHub Actions, Gitea CI/CD
- AWS S3, VM provisioning, monitoring, backups
- Postman, Insomnia, Swagger

Experience

Salvay   **Lahore, Pakistan**

Backend Developer / Team Lead   *Oct 2022 – Present*

- Led backend development for scalable RESTful APIs using Node.js (JavaScript/TypeScript), ensuring high performance and maintainability.
- Architected and integrated MongoDB and PostgreSQL databases for optimized data handling and scalability.
- Implemented monitoring and error tracking solutions using Sentry; managed cloud storage with AWS S3 buckets.
- Developed real-time multiplayer features using the Colyseus framework for gaming applications.
- Engineered modular and efficient backend services to support the main application's growing user base.
- Collaborated with front-end teams to ensure seamless API consumption and responsive user experiences.

CLV Technologies

Backend Developer, Pakistan   *Feb 2020 – Sep 2022*

- Built and maintained RESTful APIs using Express.js, with MongoDB and MySQL as backend databases.
- Designed secure authentication and authorization systems using JWT and role-based access controls.
- Delivered backend solutions tailored to client needs, working closely with UI/UX and front-end teams to align development efforts.

Other Domain Experience

Unity / C# Game Development (Prior Experience)

- Developed multiple mobile and simulation games using Unity and C#.
- Built gameplay systems, animation controllers, and UI components.
- Integrated monetization with AdMob and Unity Ads, including IAPs.
- Performance optimizations applied using Addressables, memory profiling, and pooling.
- Collaborated with cross-functional teams to polish player experiences.

Education

Lahore Leads University   **Lahore, Pakistan**

M.Phil in Computer Science   *2020*
GPA: 3.80

Projects

Tales & Conquest (Web): 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

EnAble ALL (Web): 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

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

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