

SAIFULLAH SADI

Senior Software Engineer | Unity Multiplayer & Geospatial Specialist

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PROFESSIONAL SUMMARY

Senior Software Engineer with over 10 years of experience in real-time 3D, game development, and complex mapping systems. Expert in **Unreal Engine** and **Unity** for high-performance simulation and multiplayer experiences. Specialist in geospatial visualization using **Cesium.js** and **OpenLayers**. Proven track record of leading teams and managing rapid-action prototyping environments to deliver highly engaged user experiences.

TECHNICAL SKILLS

- **Engines & Languages:** Unreal Engine, Unity3D, C#, C++, JavaScript, TypeScript, Node.js.
- **Geospatial:** Cesium.js, OpenLayers, 3D Tiles, GIS, Terrain Generation, Real-Time Maps.
- **AI-Driven Web & Frontend:** Vue.js, React.js, WebGL, REST APIs.
- **Specialized:** Multiplayer & Networking, Web3/Blockchain, Rendering Optimization, Physics & Math.
- **Tools:** AWS, Docker, Git, CI/CD, Google Play, App Store, Steam.

PROFESSIONAL EXPERIENCE

Big Immersive Pvt Ltd

Dec 2022 – Feb 2026 (3.2Y)

Sr. Software Engineer

Lahore, Pakistan

- **AI-Driven Full-Stack:** Developed modular MERN/PERN applications and CI/CD pipelines using **Claude**, **React/Vue**, **Node.js**, and **PostgreSQL**.
- **Geospatial Engineering:** Built high-performance solutions using **Cesium.js** with integrated visualizations in **Vue.js** and **React**.
- **Engine Development:** Implemented advanced geospatial calculations and real-time system integrations in **Unreal Engine** and **Unity**.
- **Immersive Tech:** Engineered **multiplayer experiences**, custom developer tools, and **Web3.0** integrations.
- **System Architecture:** Designed reusable **RESTful inventory systems** and managed complex, large-scale UI user flows.
- **Optimization:** Delivered a **60 FPS multiplayer sandbox** featuring custom teleportation and interactive 2D-to-3D map mechanics.
- **Product Leadership:** Led a **3D Avatar Generator (WebGL)** from POC to production, overseeing data modeling, SDK development, and cross-platform distribution.

Tribech Solution Pvt Ltd

Oct 2020 – Dec 2022 (2.1Y)

Team Lead

Lahore, Pakistan

- Managed hyper-casual genre prototyping from concept to final product in a rapid-action environment.
- Collaborated with art and design teams to create highly engaged user experiences.
- Published titles and analyses the D1 to D7 analytics & improved to meet KPIs.

MITByte

March 2018 – Aug 2019 (1.5Y)

Project Manager & Tech Lead

Lahore, Pakistan

- Led technical development and project management for simulation, action, shooting game portfolios.
- Oversaw rapid prototyping cycles and cross-functional team collaboration.

Galassia Studios

Sep 2016 – Oct 2017 (1Y)

Team Lead

Lahore, Pakistan

- Directed development teams in the creation and optimization of mobile game titles.
- Optimized draw call by 40% using optimizations tactics.
- Analysed dashboards and improved gameplay user sessions. Enhanced user acquisition.

Sunstar Technologies

Sep 2015 – Aug 2016 (1Y)

Sr. Unity3D Game Developer

Lahore, Pakistan

- Developed gameplay mechanics and systems for action shooting titles using Unity3D.
- Published titles with millions of downloads and maximise revenue.

Absomech

March 2014 – Aug 2015 (1.5Y)

Unity3D Game Developer

Lahore, Pakistan

- Engineered core gameplay loops and mobile optimizations for various game genres.

KEY PROJECTS

- **Geospatial Defense Simulation:** Developed 3D strategic defense simulations in Cesium.js, integrating dynamic weather systems and complex spatial analysis tools including Line of Sight (LOS) and 3D Viewshed Analysis.
- **Unity Terrain Generator:** Plugin for generating real-world terrain meshes/Unity terrains from elevation data.
- **Cardano Island 3D (Multiplayer Metaverse):** Real-world 3D metaverse experience in Unity for the Cardano community featuring land ownership and deeds.
- **Maians (Avatar Creator Tool):** A 3D avatar platform integrating AI, Social Identity, and Web3.
- **Crib & Condo / Gamer's Lounge:** Multiplayer virtual 3D spaces for the Virtua Metaverse allowing for personalization and social interaction.

PERSONAL PROJECTS

- **Community App:** AI-Driven Cross-platform Flutter application featuring real-time location tracking and movement handling. Built with a Node.js/Express backend and WebSocket for live data synchronization.
Tech: Flutter, Dart, AWS S3, PostgreSQL, Node.js, WebSockets
- **Agentic AI Data Engineering Tool:** AI-Driven Web-based data science platform for automated CSV analysis and visualization. Integrated Agentic AI to recommend data-cleaning workflows and prepare datasets for Machine Learning models.
Tech: React, Python, Node.js, MongoDB, OpenAI/Gemini API

EDUCATION & CERTIFICATIONS

- **Bachelor of Science in Information Technology** 2010 – 2014
The Islamia University Of Bahawalpur, Bahawalpur, Pakistan
- **Google AI Essentials** Nov 2024
Coursera | Score: 80%+ ([Credly](#))

ADDITIONAL INFORMATION

- **Languages:** Urdu (Native), English (Professional).
- **Interests:** Adventure motorcycle touring
- **Current Focus:** MCP (Model Context Protocol) and AI Agentic Systems.