

# Berke Kaya

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## SUMMARY

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Highly motivated and resourceful Unity & C# Developer with 5 years of diverse coding experience, including 2 years dedicated to game development. Specializing in creating polished game experiences with a proactive problem-solving approach and high adaptability. Strong skills in Unity Gaming Services, game client security, and performance optimization. Proven ability to rapidly master new technologies and apply them effectively.

## PROJECTS

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- **BattlEdge (Android)** | [YouTube](#) | [Google Play](#)  
Secure, UGS-powered 3v3 online MOBA for Android with robust multiplayer architecture.
  - Engineered secure, server-authoritative gameplay for a competitive mobile MOBA.
  - Leveraged Unity Gaming Services extensively (Multiplayer, Cloud Code, LiveOps, Monetization).
  - Implemented core MOBA features: customizable skills, matchmaking, leaderboards, social systems.
  - **Technologies:** Unity, C#, Unity Gaming Services, Google Services.
- **Fluid Simulation with Compute Shaders (PC)** | [YouTube](#) | (Based on SebLague's [Fluid-Sim](#))  
GPU-accelerated fluid dynamics project exploring Compute Shaders for interactive simulations.
  - Developed custom Compute Shader kernels for dynamic, interactive fluid particle systems.
  - Engineered bidirectional CPU-GPU data exchange for realistic object-fluid interactions.
  - Gained hands-on experience in GPU programming (HLSL) and CPU-GPU optimization techniques.
  - **Technologies:** Unity, C#, Compute Shaders, HLSL.
- **Runtime Mesh Fragmentation (PC)** | [YouTube](#) | [GitHub](#)  
High-performance system for runtime mesh fragmentation, optimized with Job System & Burst.
  - Implemented high-performance runtime mesh fragmentation using iterative plane slicing.
  - Maximized performance with Unity's Job System & Burst Compiler for parallel processing.
  - Utilized Mesh.MeshData API for direct memory management and optimized mesh data handling.
  - **Technologies:** Unity, C#, Job System, Burst Compiler, Mesh.MeshData API.

For more details on these projects and to explore others, please visit my portfolio website: [berkekaya.dev](https://berkekaya.dev)

## SKILLS

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**Engine & Languages:** Unity, C#, Python

**Platforms:** Android, PC

**Core Dev:** Gameplay Architecture & Systems Design, UI, Performance Analysis & Optimization, Shader, Git

**Unity Gaming Services (UGS):**

- **LiveOps:** Cloud Save, Remote Config, Analytics, Leaderboards, Diagnostics
- **Multiplayer:** Netcode for GameObjects, Lobby, Hosting, Matchmaking
- **Monetization/Economy:** Ads, IAP
- **Backend:** Cloud Code
- **Player Services:** Authentication, Management, Friends, Vivox Text Chat

**Platform SDKs:** Google Services (AdMob, IAP, Play Services, Firebase), Steamworks (Facepunch)

**Technical Focus:** Game Client Security Awareness, AI for Development Acceleration

**Currently Learning:** DOTS, Advanced Compute Shaders & GPU Techniques