

Balpreet Singh

Technical Team Lead

balpreets10@gmail.com

Linkedin.com/in/balpreets7

<https://balpreets10.github.io/Resume/>

+91-7006955241

J&K, India

I am an Energetic, Versatile, Technical Team Leader with experience of 8+ years. My array of experience gives me an edge in understanding the broader picture of any project. I have excellent Communication Skills and I thrive on taking responsibility within a team environment with a desire to lead people to reach a common goal. I strongly believe that Harmony between teams bring out the best of any Product Development Life Cycle and I feel I have the ability to be the "Harmonizer".

SKILLS

- Game Engines and IDE** - Unity, Android Studio, Visual Studio, Rider, VS Code
- Softwares** - Discord, Sourcetree, Slack, Github Desktop, FileZilla
- Languages** - C, C++, Java, C#, VB.NET, NoSQL
- Tools** - Jira, Gitlab, Trello, Asana
- Plugins** - Firebase, Photon, Playfab, Facebook SDK, Google Play Games SDK, Mirror
- Deployment Systems** - Google Play Store, Apple App Store, Web Servers, Standalone Installers/Uninstallers, CI/CD Pipelines using Github
- Development Aspects** - Engine Design, Scriptable Objects, Custom Inspectors, User Interface, Editor Scripting, Addressables, Asset Bundles, JSON, Multiplayer, DSA
- Techniques / Patterns** - O.O.P.S., S.O.L.I.D, MVC, MVVM, Observer, Dependency Injection, Asynchronous / Multi-threaded Programming paradigms, Abstraction and Extension

PROFESSIONAL EXPERIENCE

Technical Team Lead – Phaser, Unity

Ardent Info, Chandigarh, India

(Sep 21 – Feb 25) (3yrs -6mo)

Rule of 3 (Project Link)

- Oversee development of 9 different games clubbed in 1 package based on **Phaser.JS** Technology
- Coordinate and Collaborate between different teams (Art, Audio, Development) using AGILE methodologies
- Integrate **Addressables** to reduce initial APK size significantly.
- Implement Base Engine for a set of 3 race games
- Integrate REST API's
- Manage a team of 4 developers

Race for The White House (Not Published Yet) (Link to Gameplay Video)

- Manage development of a **Strategy Game** based on US Presidential Elections based on **MVC** and **Observer Pattern**
- Integrated **Turn Based Multiplayer** Mechanism
- Created an Extensible Base for handling Multiplayer Logic, Connection Requests and **Matchmaking** on Frontend
- Usage of **Addressables** resulting in deployment of Dynamic Characters and Animations in Production Environment
- Use of **JIRA** to track bugs and fixes

Frontend Team Lead – Unity

Webzool Inc, CA, USA

(Oct 19 – Jul 21) (1yrs -10mo)

RS Fun (App Link)

- Implemented a new **Core Engine** for Slot game using **MVC & Observer** which lowered Game Addition Time by 30%
- Designed an automated **Custom Build Test System** resulting in lower test times and faster diagnostics
- Implement Scalable mechanisms to add Minigames later on in the project lifecycle which facilitated dynamic addition of Minigames without the need of updating the app itself
- Manage a team of 15 frontend developers, distribute and monitor tasks given to them using **JIRA**
- Implement **Asset Bundles** resulting in lower Initial APK size
- Implement **Scriptable Objects** to create Multiple GUI Skins for the same UI
- Integrate **Caching Mechanism** to make efficient use of Internet Bandwidth while also making sure that updates are fetched as soon as available
- Migrated from Asset Bundles to **Addressables** in order to stay up-to date with advancing technologies
- Build and Deploy updates on Google Play Store, App Store, Web Server and Standalone on monthly basis

Game Developer – Unity

Avantr Software Pvt Ltd., J&K, India

(Mar 18 – Aug 19) (1yrs -6mo)

Bingo Blast (App Link)

- Design and Develop **Scalable Architecture** for Minigames which sped up the addition process by 20%
- Implement Minigames and **Event Notification System** resulting in 30% lower coding overhead overall
- Work on Core Game Features and Integrate REST API's
- Debug and Fix issues using **JIRA** with already implemented systems

Co Founder / Developer – Android Studio, Unity

Gaming Dronzz, J&K, India

(May 17 – Feb 18) (10mo)

Hyike Games (App Link)

- Design and Develop Online Ludo Game
- Integrate **Multiplayer** Functionality based on Photon Multiplayer Plugin
- Integrate Art, Audio and Animations in the game and Data Analytics using PlayFab Plugin
- Debug and Fix bugs using **JIRA**

My CCA (App Link)

- Implement a Data Collection and Verification Application for a Govt. Organisation
- Implement **Authorization Mechanisms** for employees to enter verified records and **State Management** in order to let users use the app in remote areas without internet access
- Integrate precise GPS services

African BIB (Organisation Link)

- Design and Develop Android Based Data Collection App
- Built a system to collect info in the app and then send them to a secure server using **Data Compression**
- Generate Analytical Reports based on the data collected
- Integrate REST API's to communicate with Backend Server

Developer - Android Studio, Visual Studio

Freelance, J&K, India

(Oct 15 – Apr 17) (1yrs -7mo)

Universal News Timeline (App Link)

- Integrate a website's blog to an Android App
- Integrate a Push Notification System to notify users of Latest News
- Build and Publish the app on Google Play Store

Pension Revision System

- Design and Develop a Standalone Desktop App for Department of Telecom, Jammu
- Convert a mathematics-based formula into code to revise Pensions of Employee according to latest pay scale. This resulted in resolution of 6 files per day per employee as compared to 2. A net 400% gain in output
- Integrate Data Validation Mechanisms to make sure wrong input is not provided
- Create a report generation system for Printing Purposes based on a pre-defined format

ACADEMIA

- **Masters in Computer Applications** (2012 – 2015)
University of Jammu (NAAC Accredited A++)
- **Bachelors in Computer Applications** (2009 – 2012)
Govt. Gandhi Memorial Science College
University of Jammu (NAAC Accredited A++)

INTERESTS

- **Games**
Call of Duty Series, FIFA Series, Need for Speed Series, F1 Series, GTA Series, Cities Skylines
- **Sports**
Badminton, Football