

# MIRA IZZATUL

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[Email](#) · [LinkedIn](#) · [GitHub](#) · [Portfolio](#)

Dedicated C++ game programmer with over 5 years of experience building gameplay systems, UI, and networking features in Unreal Engine. Currently developing a game engine from scratch in C++ using SDL3, with a growing focus on systems architecture, performance, and low-level engine programming. Seeking an efficient position in game development with a company that prides itself on their positive company culture, compassionate, and like-minded people.

## TECHNICAL SKILLS

### PROGRAMMING

C++, Blueprint, Unreal Engine, Unity, Gameplay Systems, UI Systems, Tools Development

### DESIGN

Prototyping, Game Feel, Scripting, Iteration, Balancing, Level Scripting

### COLLABORATION

Cross-functional teamwork, Agile/Scrum

### TOOLS

Visual Studio, GitHub, Perforce, TortoiseSVN

## INDEPENDENT PROJECT

JUL 2025 – PRESENT

**ENGINE PROGRAMMER**, C++ /SDL3

### Unannounced title

- Designing and developing a 2D RTS defense game from scratch using SDL3 in C++.
- Building custom game framework with rendering, input, event handling, and basic UI systems.
- Implemented inventory system and reusable bullet pooling to optimize performance.
- Developed AABB based collision detection system for unit and projectile interaction.
- Created a working minimap system, including coordinate transformation and viewport scaling.
- Gaining hands-on experience with low-level engine architecture, data-driven design, and real-time systems.

## EXPERIENCE

JUL 2022 – PRESENT

**GAMEPLAY PROGRAMMER**, DEEP FIELD GAMES

### Abiotic Factor

- Developed the core foundation of the cooking and pet system, supporting in-world placement/interaction.
- Investigated and implemented Push Model networking into the existing game, migrating existing C++ replicated code to use the new method.
- Expanded the save system to support an open world style save structure, with a large amount of modifiable furniture, resources and individual player saves.
- Extensive work using UMG, working with designers and player feedback to implement new functionality across Player HUD and Inventory/Crafting menus.
- Implemented stable fixes across the entire project for live hotfixes.
- Expanded player mechanic to include custom movement eg. Jetpack, combat roll. Improved interaction system to allow player interaction like applying medical items or offering food.
- Implemented melee/projectile combat system for players, including unique weapons eg. Vacuum, net launcher.
- Worked with designers to implement perks and new buffs for players and creatures eg. Skill tree bonuses, altered player mechanics based on skill level.

JAN 2019 – JUN 2022

**GAME PROGRAMMER**, TODAK STUDIOS SDN BHD

### ToGather:Island

- Developed a projectile system for easy tuning for NPCs.
- Rebuilt mouse and keyboard input support for inventory and crafting while preserving controller compatibility.
- Expanded the player progression system for a reliable save/load functionality across sessions.

### Unannounced title

- Worked on multiplayer fighting gameplay mechanics and systems.
- Worked on MOBA core gameplay, game mechanic, system and UI.
- Worked on multiplayer twin stick shooter core gameplay, controls, systems and AI.
- Assisted programmers and designers for the best gameplay implementation.
- Assisted team in source control management.

SEP 2018 - JAN 2019

**UNITY PROGRAMMER**, NILAM PUBLICATION SDN BHD

- Worked on several games and simulations for digital educational purposes.

MAY 2017 - SEP 2017

**3D GAME DEVELOPER**, ESOLUTION TECHNOLOGY SERVICES

- Lead a team of developers developed an embedded web application using Unity 3D.

## EDUCATION

2013 - 2017

**DEGREE TITLE,** UNIVERSITI TEKNIKAL MALAYSIA MELAKA

Bachelors of Information Technology, Game Technology