

Nguyen Gia Huy

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EDUCATION

Thang Long University

Hanoi, Vietnam

Bachelor of Science in Information Technology

Expected Graduation: 05/2026

GPA: 3.5/4

Honors/Awards:

- Merit Scholarship for Excellent Academic Performance
- Consolation Prize in Vietnamese Student Olympiad in Informatics 2023
- Honorable Mention in ICPC National Vietnam 2023
- **2st prize** at TFI Programming Contest Of Thang Long University

Relevant coursework: Introduction to Computing, Data Structures Algorithms, Object-oriented Programming, Software Development, Computer Infrastructure

SKILLS & CERTIFICATIONS

Programming: C++, C#, Python, Javascript

Tools: Unity, VS Code, Git, Fork, Postman, Unity Version Control

Design Patterns: Singleton pattern, Observer pattern, State Machine

Algorithmic Skills: Solved 800+ problems on [Codeforces](#) (Max rating: 1437, Specialist); [Leetcode](#) Contest Rating 1665

Languages: Fluent in English

PROJECTS

TypingMage – Game Developer

[GitHub](#) | [Play](#)

- **Design Patterns:** Applied **Observer Pattern** for real-time UI updates, Singleton for global state management, and Object Pooling for efficient enemy spawning.
- **UI:** Developed an interactive UI system displaying player score, leaderboard.
- **Scoring and Defeat:** A 2D top-down action typing game. Each enemy appears with a random sequence of arrow keys (← ↑ → ↓) displayed above them. Players must input the correct sequence to defeat them.
- **Leaderboard Integration:** Integrated PlayFab for user login and real-time leaderboard ranking.
- **Tools & Technologies:** Unity, C#, Tilemap, Animator, Observer Pattern, Singleton, Object Pooling, PlayFab.

ElementalPowder – Game Developer | Software Engineering Course

[GitHub](#) | [Play](#)

- **Design Patterns:** Applied **Observer Pattern** for UI updates and sound synchronization, **Singleton** for managing global game states, and **State Machine** for handling player and enemy behaviors.
 - **UI and Audio:** Developed an interactive UI system displaying player stats, available skills, and buffs. Implemented dynamic sound effects and background music that adapt to in-game events.
 - **Gameplay Mechanics:** A 2D top-down action game with level-based progression. Each level has a number of enemies, players must defeat all enemies to advance, with a **boss stage** introducing unique mechanics.
 - **Combat System:** Players use bomb placement mechanics with timed explosions to clear obstacles and defeat enemies. **Skills are not available by default**; instead, players must **find and collect them** from destructible wooden crates scattered across the map.
 - **Items and Buffs:** Wooden crates may contain **buffs** (speed boosts, shields, healing) or **skill pickups** that allow players to use special abilities.
 - **Tools & Technologies:** Unity, C#, Tilemap, Animator, Audio Mixer, Observer Pattern, Singleton, State Machine.
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