

# Yuheng Ye

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## Education

Imperial College London **MEng Computing** (First Year) 2024-2028

- Relevant First Year Modules: Computer Systems, Computer Architecture, Software Engineering Design, Operating Systems, Compiler

ULink College Shanghai (High School) 2020-2024

- A-Levels: Mathematics (A\*), Further Mathematics (A\*), Computer Science (A\*), Physics (A\*)

## Experience

Contributor to Open-Source Game 'Quaver' [GitHub: Quaver](#) 2024 - present

- **Improve** algorithms to enhance user experience; Fixed **server issues** during tournament.
- **Coordination** with other developers and graphics designers to introduce brand new features
- Developed **in-depth** understanding of **MonoGame, C#, and Git**
- **Top 3 Contributor** in **6 months**

Intern of Haiyue Automation Co., Limited Summer 2023

- **Designed** a traffic light controller and an answering machine with **PLC** and **Ladder Diagrams**
- **Leading** the internship and discussed frequently with the other interns

Experimentation of Genetic Algorithm in ANN [GitHub: MadPodRacingNative](#) 2022 - 2023

- **Trained** an ANN agent with **Genetic Algorithm** to compete in an online programming game
- Previous attempt includes **PID** control, approaching the **Gold Rank**

Game Level Editor Software 2022 - 2023

- **Formulated** the file format for the level structure and the UI of the editor
- Made extensive use of **Unity/C#** and investigated common game design patterns like **ECS**

Interpreter and LSP for CAIE Pseudocode [GitHub: corale](#) 2022-2023

- **Devised** the interpreter and language server protocol adhering to the language standard
- **Installed** in the computers of all computer science students in my high school

## Skills

Programming Languages: C#, C/C++, Python

Languages: English (Fluent), Chinese (Native)

Clubs:

- Game Development (2024). Leading the team as a developer.

## Interests

- Music: Clarinetist (10<sup>th</sup> level in China), Music Composition
- Operating Systems: currently learning **xv6**