

# JOEY SUN

## FULL STACK SOFTWARE DEVELOPER

**P** 04 5198 9822

**E** zysun22@gmail.com

**A** South Brisbane 4101

**W** [zhongyu22.github.io](https://github.com/zhongyu22)

### PROFILE

Highly motivated full-stack software developer. Proficient in React, Node.js, MySQL, PHP and backend programming languages such as Python and Java. Dedicated to continuously expanding knowledge and staying up-to-date with industry trends. Seeking a junior-level position to contribute to a dynamic team and further develop skills in software development.

### PROJECT EXPERIENCE

#### Course Hunt (Feb 2022 - June 2022)

Developed an online learning platform based on modern MVC architecture, serving as a web-based virtual learning environment and learning management system using CodeIgniter framework, PHP, and MySQL database.

- Implemented user registration functionality, allowing users to create unique accounts with email verification required for password recovery and changes to sensitive information.
- Utilized server-side validation during user login and encrypted user passwords to ensure secure authentication and protect against unauthorized access.
- Implemented cookies on each page to reflect the user's login status, providing a seamless and personalized user experience.
- Utilized access controls to restrict certain content to logged-in users only, enhancing user privacy and promoting engagement.
- Enabled users to add their favorite courses to a shopping cart for convenient access and future reference.
- Integrated web security technologies, including CAPTCHA, to prevent automated bots from accessing the platform and ensure the security of user accounts.
- Saved all user information securely in a MySQL database, allowing for efficient search and retrieval of user data.
- Implemented a search box with autocomplete functionality, enhancing the user experience and facilitating quick and accurate searches.
- Integrated third-party APIs such as the Google Maps API to display the user's location, enabling users to connect with nearby learners.
- Integrated online payment methods, such as PayPal, allowing users to purchase courses securely and receive downloadable receipts.

### EDUCATION

Master of Information Technology  
University of Queensland(UQ)  
December 2022  
With Distinction (GPA: 6.5/7.0)

Bachelor of Mechanical  
Engineering  
Jiangsu University

### KEY SKILLS

- NODE.JS, REACT.
- PYTHON, JAVA
- MYSQL, MONGODB
- DOCKER
- GIT
- GOOGLE CLOUD PLATFORM
- AMAZON WEB SERVICE
- HTML, CSS, JAVASCRIPT

### AWARDS

- DEAN'S COMMENDATION FOR  
ACADEMIC EXCELLENCE IN  
SEMESTER 2, 2022 AND  
SEMESTER 1, 2021, UQ.

- Collaborated with a team of developers to ensure code quality, adhere to best practices, and follow the Model-View-Controller (MVC) architectural pattern.
- Conducted thorough testing, including unit testing and security testing, to identify and address any potential vulnerabilities and ensure a stable and secure platform.

### **Python-based game - EndOfDayZ (Mar 2021 - June 2021)**

- Dedicated in the design and implementation of a captivating zombie survival game using Python. Utilized Poetry to efficiently manage and organize project dependencies, ensuring smooth development and deployment processes.
- Implemented a grid-based map system, allowing players to explore a customizable  $N \times N$  size grid populated with moving zombies, scattered equipment, and a hospital.
- Programmed player movement mechanics, enabling control of character direction using the WASD keys on the keyboard.
- Designed an inventory system that enables players to pick up and utilize equipment found on the map, such as bows and arrows for shooting zombies and garlic to restore the player's life value.
- Created win conditions where the player can either enter the hospital or eliminate all zombies to achieve victory.
- Developed an adjustable difficulty feature, allowing players to choose high IQ zombies for a more challenging experience. High IQ zombies intelligently approach the player based on their movement direction, while normal zombies move randomly.
- Integrated a scoreboard feature that tracks and displays the completion time of players who successfully finish the game in the least amount of time.
- Collaborated effectively with the development team, providing guidance and support on adopting Poetry and addressing any challenges or concerns.

## **REFERENCES**

---

Available upon request.