Yuhan Yang

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EDUCATION

NORTHEASTERN UNIVERSITY   **Seattle, WA**
Master of Science in Computer Science   *Sep 2022 - Present*

- **Computer Science Fundamentals:** Object-Oriented Design, Data Structure, Algorithms, Discrete Mathematics
- **Advanced Topics:** Computer Systems Applications, Software Engineering Foundations, Database Management, Computer Network, Cloud Computing

OHIO STATE UNIVERSITY   **Columbus, OH**
Bachelor of Science in Civil Engineering   *Sep 2015 – May 2019*

- **Relevant Coursework:** MATLAB, Data Interpolation, Numerical Analysis Methods

ACADEMIC PROJECTS

Checkers

- Developed a Python-based Checkers game with Python Turtle for graphical enhancement.
- Met weekly millstones for efficient project management and component integration.

Theater Reservation System

- Developed a theater Reservation System with automated seat allocation for user convenience.
- Focused on system design and testing using various data structures and design patterns.

Discord Pokémon Bot

- Developed a feature-rich Pokémon bot for discord using Java, Discord API, MongoDB; integrated features such as Pokémon battles, trading and team management.
- Worked in a team of three, responsible for designing battle and trading algorithm and user interaction commands.

Multiplayer Online Role-Playing Game Database and Web Interface

- Developed a MySQL database and Java-based web interface for a multiplayer role-playing game.
- Managed complex game data including player accounts, characters, inventories, gears and weapons, items, and game mechanics.
- Collaborated in a team, demonstrated skills in database design, web development, and system integration.

WORKING EXPERIENCE

AMERICAN ELECTRIC POWER   **Columbus, OH**
Civil Engineer Associate   *Nov 2021 – Aug 2022*

- Participated in transmission project planning and design, conducted site surveys, and developed engineering drawings using CAD programs.

TECHNICAL SKILLS

- **Programming Languages**: Python, Java; familiar with C, JavaScript, SQL
- **Software Development Tools**: PyCharm, Visual Studio Code, IntelliJ IDEA, Eclipse, Git and GitHub, Junit, MongoDB, MySQL
- **Other**: strong understanding of fundamental data structures and algorithms, object-oriented design, applying design principles and using design patterns, problem-solving, debugging and testing. Completion of AWS Academy Cloud Foundations and AWS Academy Architecting.