

# Yi Xin Wang

✉ yixwang12@yahoo.com ☎ +1(206)-327-7630 in [linkedin.com/yi-xin-wang](https://www.linkedin.com/yi-xin-wang) 🌐 [yixinwang-portfolio.xyz](https://yixinwang-portfolio.xyz)

## Skills

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**Technical Skills:** Java, JavaScript, Python, C, C#, MYSQL, HTML, CSS, MATLAB, Assembly Language, Node.js, React Native, UnitTest, Git

**Soft Skills:** Time Management, Communication, Problem-solving, Adaptability, Teamwork, Commitment

## Education

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**Western Washington University** *BS in Computer Science* *Sept. 2021 – Present*

- **Coursework:** Data Structures, Algorithms Analysis, Database Systems, Computer Networks, and Operating Systems

## Experience

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**Software Engineer Intern**

*Bellingham, WA*

*PACCAR*

*Sept. 2024 – Present*

- Built a time-series data ingestion system for multiple formats, optimizing data flow for large datasets
- Created a flexible database schema for efficient storage and fast queries, scaling for 20% annual data growth
- Integrated Snowflake as the storage solution, ensuring high performance for large-scale queries
- Implemented error handling for missing or corrupted data, preventing data loss during ingestion and queries

**Math Grader**

*Bellingham, WA*

*Western Washington University*

*Sept. 2022 – Present*

- Collaborated with professors to evaluate assignments and provide feedback to students
- Maintained accurate records and updated grades promptly

## Projects

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**Dictionary Mobile App**

*Mar. 2024*

- Built a cross-platform word search app using the Free Dictionary API for iOS and Android
- Added form validation, audio playback, font switching, and theme adaptation for better user experience
- Tested with Jest to ensure reliability and functionality
- Tools Used: JavaScript, React Native, Expo, Jest

**Puzzle and Adventure Game: The Dungeon of Duality**

*June 2024*

- Developed a puzzle-adventure game featuring a unique realm-shifting mechanic
- Implemented core mechanics, including realm-shifting, smooth player navigation, and a final boss encounter
- Ensured engaging game play with fluid movement and well-designed progression
- Tools Used: C#, Unity

**X16 Emulator and Assembler Development**

*May 2022*

- Built a single-cycle X16 emulator with bitwise operations, instruction decoding, and memory management
- Developed an assembler with label handling and two-pass assembly for precise memory addressing
- Ensured reliable performance through testing, memory leak checks
- Tools Used: C, Assembly Language

## Summary

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Computer science student with a strong foundation in software development, proficient in Java, Python, C, and JavaScript. Experienced in time-series data ingestion and analysis. Grading experience demonstrates attention to detail and strong analytical skills.