Wenshuo Wang

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Education

University of California, Irvine **Sep. 2024 – Jun. 2026**
Bachelor of Science in Computer Science *Irvine, CA*

East Los Angeles College **Sep. 2022 – Jun. 2024**
Associate in Mathematics *Monterey Park, CA*

Relevant Coursework

- Data Structures
- JAVA
- Object Oriented Programming
- Database Management
- Statistics
- Intro Software Engineering

Projects/Experience

Queue-Based Recruitment System | *C++* **Sep, 2024**

- Developed a Queue-Based Recruitment System: Automated player recruitment for a futsal team using linked lists.
- Implemented Queue Functions: Designed enqueue, dequeue, and batch processing to manage player applications.
- Debugged and resolved memory issues using AddressSanitizer for error-free execution.
- Successfully tested all functions with multiple edge cases to confirm the correctness of the system

Artists List Management System | *C++* **Oct 2024**

- Developed a Doubly Linked List Program: Managed Spotify daily artist chart data using a custom designed data structure in C++.
- Implemented Core features. Added methods for searching, adding and displaying artist data efficiently.
- Focused on proper memory management to prevent leaks and stability.

Automated Budget Tracker | *C++* **Nov 2024**

- Developed a Budget Tracking Program Automated income and expenditure processing using C++.
- Created formatted budget reports for clear visualization of financial data.
- Optimized for Scalability, designed the system to handle large datasets efficiently for future expansion.

Graph Based Analysis System | *C++* **Dec 2024**

- Designed to identify key relationships between data points in the form of a graph.
- Focus on creating scalable solutions that can efficiently handle large datasets and graph traversals
- Detects connected components, cycle, and shortest path in the graph.

Technical Skills

Languages: C++, JAVA, Python, JavaScript
Developer Tools: VS Code, Clion, Pycharm, IntelliJ IDEA, Microsoft Visual Studio
Technologies/Frameworks: GitHub

Extracurricular

Volunteer **Spring 2020 – Present**

- Teaching basic coding to kids, volunteered to teach basic coding concepts to children.
- Participated in or helped for a local coding club, supporting beginners and helping them with their coding projects or homework.