

Stanley Yang

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EDUCATION

University of Washington, Seattle, WA

Expected Graduation: June 2026

Bachelor of Science in Computer Science

- Major GPA 3.89/4.00, overall GPA 3.76/4.00
 - Relevant Courses: Programming Languages, Software Design and Implementation, The Hardware/Software Interface
 - Completed Honor Math 13x Accelerated Calculus Series
 - Dean's List for 2022-2023 academic year
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EXPERIENCES

Researcher, Seattle, WA

Jun. 2023 – Aug. 2023

Summer Researcher, UW PLSE (Programming Languages and Software Engineering) Lab

- Developed SQLite scripts to streamline importing and testing process on datasets with a special focus on NULL values
- Conducted data preprocessing by parsing and cleaning raw data to address various complex formatting issues
- Employed database attaching methods to smoothly facilitate data integration and analysis, avoiding the need for explicit joins and simplifying query construction
- Skillfully tested and executed view scripts and complex queries on bulk data, ensuring the scalability and robustness

Teaching Assistant, Seattle, WA

Mar. 2023 – Jun. 2023

Teaching Assistant in CSE 341 spring and autumn quarter 2023, University of Washington

Sep. 2023 – Present

- Led quiz section meetings and conducted office hours to support student learning
- Maintained electronic bulletin boards and assisted in resolving student issues
- Designed customized lessons to cater to the diverse learning needs of over 30 students
- Assisted the professor in course management by grading over 200 assignments

Researcher, Oberlin, OH

Jul. 2021 – Sep. 2021

Pioneer Academics Research, Summer 2021

- Conducted individual research focusing on the mathematics of ranking, earning research credit awarded by Oberlin College
 - Developed a novel multi-competitor Elo rating system to enhance accuracy in ranking analysis
 - Assessed its viability through the calculation of average mean square errors, validating its effectiveness
 - Applied the ranking system on Codeforces by analyzing 20 top-tier contests with approximately 20,000 participants
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TECHNICAL PROJECT

Campus Path Finder, Seattle, WA

Feb. 2023 – Mar. 2023

- Developed a generic ADT and applied it to a campus map using Java
- Designed a web application following the MVC pattern for finding the shortest path between any two buildings
- Utilized React and the Java Spark framework to create a user-friendly GUI for campus navigation
- Analyzed a database comprising over 5,000 campus coordinates to establish paths between 52 buildings

Seating Assignment Program, Wuhan, China

Jan. 2021 – Jan. 2022

- Designed ADTs for user accounts and seating layouts using Java, enhancing data organization
 - Utilized File I/O operations to store account data and seating plans in local CSV files, ensuring easy data retrieval
 - Enhanced seating arrangements through personalized customization of student properties, leading to more tailored layouts
 - Implemented a GUI using Java Swing, enabling users to effortlessly edit seating plans and export them for printing
 - Thoroughly tested to ensure application reliability, addressing potential issues for a seamless user experience
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EXTRACURRICULAR/COMMUNITY INVOLVEMENT

Student Volunteer, Bellevue, WA

Jun. 2023

Student Volunteer in ACM SIGMOD conference 2023, Summer 2023

- Assisted session chairs and presenters in preparing slides and videos prior to sessions, facilitating conference proceedings
 - Ensured timely resolution of audio issues by liaising with the technical team, contributing to a cohesive audio experience
 - Volunteered for six research and tutorial sessions, assisted over 500 leading scholars in the database field
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SKILLS

- **Programming Languages:** Java, C/C++, Python, MATLAB, JavaScript/TypeScript, SQLite, OCaml, Racket
- **Frameworks:** ReactJS, Java Spark, Java Swing, Flutter, Android Studio
- **Languages:** Native proficiency in Mandarin, Full professional proficiency in English