**Stanley Yang**

[guangyg@cs.washington.edu](mailto:guangyg@cs.washington.edu) | (206) 910-2010 | [linkedin.com/in/stanley-yang-9457b7252](http://linkedin.com/in/stanley-yang-9457b7252) | <az15240.github.io>

**EDUCATION**

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| **University of Washington,** Seattle, WA  *Bachelor of Science in Computer Science* | Expected Graduation: June 2026 |
| * 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 | |

**EXPERIENCES**

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| **Researcher**, Seattle, WA  *Summer Researcher, UW PLSE (Programming Languages and Software Engineering) Lab* | Jun. 2023 – Aug. 2023 |
| * 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  *Teaching Assistant in CSE 341 spring and autumn quarter 2023, University of Washington* | Mar. 2023 – Jun. 2023 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  *Pioneer Academics Research, Summer 2021* | Jul. 2021 – Sep. 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 | |

**TECHNICAL PROJECT**

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| **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 | |

**EXTRACURRICULAR/COMMUNITY INVOLVEMENT**

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| **Student Volunteer**, Bellevue, WA  *Student Volunteer in ACM SIGMOD conference 2023, Summer 2023* | Jun. 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 | |

**SKILLS**

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| * **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 |