Stanley Yang

guangyg@cs.washington.edu | (206) 910-2010 | linkedin.com/in/stanley-yang-9457b7252 | az15240.github.io

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

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

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

EXTRACURRICULAR/COMMUNITY INVOLVEMENT

Student Volunteer, Bellevue, WA   Jun. 2023
Student Volunteer in ACM SIGMOD 2023, Summer 2023
- Assisted with slides and videos preparation 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

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