

Guanghao Ye

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PROGRAMMING SKILLS

- Proficient: C/C++, Python, Java, SQL, Standard ML, Algorithm Design and Analysis
- Familiar: \LaTeX , Golang, Racket, Haskell, Shell, Amazon AWS, Microsoft Azure, Apache Spark



EDUCATION

- **University of Washington** Seattle, WA
Bachelor of Science; Computer Science, Mathematics; GPA: 3.86 *Aug. 2017 – Exp Jun. 2021*
Undergraduate Coursework:
 - Software Design and Implementation
 - The Hardware/Software Interface
 - Systems Programming
 - Programming Languages
 - Database
 - Introduction to Algorithms**Graduate Coursework:**
 - Computational Complexity
 - Design and Analysis of Algorithms
 - Algorithms through Geometric Lens

EXPERIENCE

- **University of Washington** Seattle, WA
Teaching Assistant *Mar. 2018 - Present*
Assisted with course planning and development, graded students' homework, and held weekly office hours.
 - CSE 421: Introduction to Algorithm 18 Spring Instructor: Yin Tat Lee
 - CSE 421: Introduction to Algorithm 18 Autumn Instructor: Yin Tat Lee
- **Chengdu No.7 High School** Chengdu, China
Software Engineer *Mar. 2017 - Aug. 2017*
Wrote an Online Judge System based on Python, Django, and Docker to help students to test their programs of competitive programming problems and to help coaches to organize contests online.

PROJECTS

- **File System Search Engine** *Jun. 2018*
Wrote a file system search engine using C++. It builds on-disk indices and has a POSIX multi-thread web server built on C++11 and Boost which support thread pool. This is a course project for *CSE 333 System Programming*.  Github
- **Top Trees C++ Implementation** *Aug. 2016*
Wrote a C++ implementation of *Tarjan's self-adjusting top trees* which can maintain information in a fully dynamic forest. Here fully dynamic means that edges may be both inserted and deleted.  Github

HONORS

- **Recipient:** Microsoft Endowed Scholarship *Sept. 2018 – Jun. 2019*
- **Rank 5:** ACM International Collegiate Programming Contest, Pacific Northwest *Nov. 2017*
- **Rank 2:** UW ICPC School Contest *Nov. 2017*
- **Rank 7:** Internet Problem Solving Contest 2017, High School Division *Jul. 2017*
- **Rank 1:** USA Computing Olympiad 2016-2017 First Contest *Dec. 2016*
- **Dean's List:** University of Washington Seattle Annual Dean's List *Sept. 2017 – Present*