

YUKAI YAN

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EDUCATION

UNDERGRADUATE: UNIVERSITY OF WASHINGTON

EXPECTED GRADUATION DAY: DECEMBER 2021

Major: Computer Science & ACMS (Applied Computational Mathematical Science)

UW Honors Program Awards: Dean's list Cumulative GPA: 3.77/4.00

Technology and Business Association Leader (Registered Student Organization at UW)

Study Abroad in Summer 2018 (Engineering Japan program and Honors Explore Japan Seminar)

SKILL SET

- Languages: Java(Proficient), Python, C/C++, MATLAB, SQL, HTML.
- Applications: Django, Git, Github pages, React, Spark, Overleaf, IntelliJ, PyCharm, Microsoft Suite.
- Developer Skills: Data Structure and Algorithms, SQL Database, Object-Oriented Programming, System Programming, Web Crawling and Processing, Compiler, Linux, Data Analysis and Visualization.

RELEVANT EXPERIENCE

WORK EXPERIENCE: TEACHING ASSISTANT

JANUARY 2021 – PRESENT

- Part-time TA at Paul G. Allen School for CSE 312: Probability & Statistics for computer scientists.
- Led weekly review sessions, held office hours, managed and responded to the discussion board.
- Prepared and graded assignments/exams.

PROJECT EXPERIENCE: COMPILER CONSTRUCTION

SEPTEMBER 2020 – DECEMBER 2020

- Developed a system that compiles and executes MiniJava programs.
- Implemented scanner, parser, AST, semantic analysis, code generation, and optimization to the compiler.
- Designed the main executable program that handles command-line arguments for various tasks.
- *Technologies: Java, Apache Ant, C, x86 Assembly Language, IntelliJ, GitLab.*

PROJECT EXPERIENCE: SOFTWARE DESIGN AND IMPLEMENTATION

JUNE 2019 – AUGUST 2019

- Built a Graphic User Interface that displays the shortest path between buildings on the map of campus.
- Designed the underlying ADT to properly save and represent the data about the map from scratch.
- Implemented the specification and Implementation tests to analyze and improve the code.
- *Technologies: Java, Spark, React, JavaScript, Html, IntelliJ, GitLab.*

RESEARCH

RESEARCH ASSISTANT: FATE

SEPTEMBER 2019 – FEBRUARY 2020

- Research Topic: Fair, Accuracy, Transparency, and Equality in search engines.
- Built an online questionnaire under the supervise of Dr. Chirag Shah.
- Implemented the backend to process frontend requests and send data using Django.
- Designed the UI and the communication to the database at the frontend ([sample page](#)).
- *Technologies: Python, Django, Html, JavaScript, VSCode, GitHub.*

RESEARCH ASSISTANT: SCRAPTIVA

JANUARY 2019 – APRIL 2019

- Research Topic: The potential relationship between CEO overconfidence and innovative industries.
- Designed and developed an automation system to collect data on websites for business analysis.
- *Technologies: Python, Selenium, BeautifulSoup, PyCharm, GitHub.*