YUKAI **YAN**

206-605-8826 | yukaiy@cs.washington.edu | https://yukaiyan.com/

EDUCATION

UNDERGRADUATE: UNIVERSITY OF WASHINGTON   **EXPECTED GRADUATION: DECEMBER 2021**

Major: Computer Science & Applied Computational Mathematical Science
UW Honors Program   Awards: Dean's list   Cumulative GPA: 3.79/4.00
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, JavaScript, SQL.
- Applications: Git, Numpy, Sklearn, Django, React, Spark, Selenium, Beautiful Soup, Overleaf.
- Developer Skills: Data Structures and Algorithms, Object-Oriented Programming, System Programming, Web Crawling and Processing, Compiler, Machine Learning, Linux, Data Analysis and Visualization.

EXPERIENCE

INTERNSHIP: SOFTWARE ENGINEER INTERN   **JUNE 2021 – SEPTEMBER 2021**

- Full-time SDE intern on the data science team at 98point6.
- Analyzed the existing neural network with past-year data, designed various models that could improve the performance, tuned the hyperparameters, and trained/compared metrics produced by the models.
- Implemented a better model in the repo, conducted sniff tests, and deployed it into production.
- *Technologies: Python, PyTorch, Sklearn, NumPy, SQL, Sagemaker, Jenkins, GitHub, Slack, VSCode.*

LEADERSHIP: TEACHING ASSISTANT   **JANUARY 2021 – JUNE 2021**

- Part-time TA at Paul G. Allen School for CSE 312: Probability & Statistics for Computer Scientists and CSE 401/M501: Compiler Construction.
- Led weekly review sessions, held office hours, prepared and graded assignments/exams.

PROJECT EXPERIENCE: CHROME EXTENSION   **MARCH 2021 – JUNE 2021**

- Designed and developed a chrome add-on that allows users to view their Chrome usage trends through stylized and interactive visualizations.
- Implemented the backend that tracks user's usage and stores data on Chrome sync.
- Added API and incorporated with the frontend team to process and display live data (repo).
- *Technologies: Javascript, Html, VSCode, Google Doc, Slack, GitHub.*

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.
- Added 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 – DECEMBER 2019**

- Research Topic: Fair, Accuracy, Transparency, and Equality in search engines.
- Built an online questionnaire and implemented the backend to process frontend requests and send data.
- Designed the UI and the communication to the database at the frontend (sample page).
- *Technologies: Python, Django, Html, JavaScript, VSCode, GitHub.*