MAY WANG

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EDUCATION

B.S. Computer Science | University of Washington • Seattle Sept 2019 – June 2023

- **GPA:** 3.83/4.00
- **Coursework:** Web Programming, Data Structures & Parallelism, Software Design & Implementation, Hardware/Software Interface
- **Upcoming Courses:** Algorithms, Operating Systems, Compiler Construction, Programming Languages

TECHNICAL SKILLS

Languages | Java • HTML5/CSS • JavaScript • SQLite • Python3 • C • TypeScript
Tools & Frameworks | Express • Node.js • Git • Linux • React • Spark

PROJECTS

Campus Paths

- Designed a generic graph ADT and implemented Dijkstra's algorithm to find the shortest path between two campus buildings on a map
- Created a **Spark Java** server to handle data requests and built a GUI application using **React**
- Wrote a high-quality test suite using test scripts and JUnit tests for the graph and algorithms

uMessage

- Wrote sorting algorithms including HeapSort and QuickSort to drive word suggestion, spelling correction, and autocompletion in a chat application
- Implemented MinHeap, AVLTree, and HashTable, and analyzed runtimes of operations to determine efficiency of different dictionary implementations

Zip

- Implemented add, peek, next, size, and clear algorithms for **Java** WorkLists including ArrayStack, CircularArrayFIFOQueue, and ListFIFOQueue used by Huffman client
- Implemented HashTrieMap and HashTrieSet dictionaries using tries, successfully compressing inputs into a *.zip file with an average compression ratio of 1.76

Yipper

- Created a full-stack, dog-based "Twitter" website using **JavaScript** and stored all data in a database
- Used **Express** to create a web service and used **AJAX** to fetch text/JSON data from this API
- Features: filter by search, liking posts, viewing all posts for a designated user, user validation

EXPERIENCE

Head Teaching Assistant | UW Paul G. Allen School of CSE Sept 2020 – present

- Leading weekly sections to teach **Java** programming to 20+ students with diverse skill levels
- Teaching stacks, queues, linked lists, binary trees, recursion, collections
- Organized Exploration Sessions for students to explore extra computer science topics such as programming languages and machine learning

Resident Adviser | UW Residential Life Sept 2020 – present

- Supporting and encouraging residents to explore their identity and trajectory in a team of 20+ staff
- Fostering a sense of community in residence halls with 1000+ residents by facilitating one-on-one interactions and virtual floor events