

# HANS ZHANG

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## EDUCATION

### University of Washington

Exp Graduation: Jun 2022

B.S in Computer Science, GPA: 3.87

Relevant Coursework: Computer Networks (current), Database Management, Database Internal, Algorithms, Data Structures, C++ Programming, Software Engineering, Programming Languages, Artificial Intelligence, Java Programming

### UW Academy for Young Scholars

College early entrance program @ UW

Started college at age 16, GPA: 4.00

## SKILLS

**Programming Language(proficient):** Java, JavaScript    **Programming Language(familiar):** Python, SQL, C, C++, HTML, CSS, PHP

**Tools & Platform:** Git, Linux, AWS, MySQL, MongoDB    **Libraries & Frameworks:** React, Express, Flask, Bootstrap, Spring, JUnit

## EXPERIENCE

### Teaching Assistant, Data Structure Course, UW CSE

June 2020 – August 2020

- Taught practice problems on data structures, concurrency, and parallelism and led weekly quiz section of 30+ students.
- Wrote data structure quiz content and used Python scripts to grade Gitlab programming projects with 7 teaching assistants.

### Undergraduate Intern, UW Makeability Lab

July 2019 – August 2019

- Collaborated closely with 9 interns to design and develop a crowdsourcing website aiming to identify street accessibility problems for people with mobility impairment in Seattle and Washington, D.C. Dedicated 25+ hours weekly to the project.
- Proposed and revamped an interactive street accessibility validation panel incorporating the Google Street View API.
- Fixed 20+ functional bugs and improved website aesthetics using HTML, CSS, JavaScript, jQuery, Scala, SQL, and Bootstrap.

## PROJECTS

### COVID-19 Open Source Project

July 2020 – August 2020

- Facilitated a community service project in Seattle to offer weekly grocery delivery to the elderly during covid-19 pandemic.
- Independently built a full-stack web application from scratch to streamline the delivery process. Devoted 80+ hours in total.
- Self-learned 5+ web technologies relevant to the project: React, Redux, Firebase, Sass, Node, Express, and MongoDB.
- Documented and promoted the project on GitHub. Managed a team of 3 developers to refine existing application features.
- <https://github.com/hanszhang00/Pandemic-Produce-Delivery-Project>

### Black Lives Matter Open Source Project

August 2020

- Designed and programmed an online platform for Black Lives Matter, where students can contribute article and video content to support the movement. Spent 40+ hours on development and self-learned Gatsby, a React-based framework.
- Open-sourced the project on GitHub and created 3 RESTful API endpoints for developers to utilize the online BLM resources.
- Technologies: Gatsby, React, CSS, GraphQL, Strapi Headless CMS, Express, PostgreSQL, and Google Cloud.
- <https://github.com/hanszhang00/blm-resources>

### WhatsApp Chatbot Flow Editor, Microsoft Hackathon

July 2020

- Cooperated with a nonprofit organization on a WhatsApp chatbot that sends useful covid-19 information to parents in India.
- Integrated the chatbot flow editor into website's admin dashboard using React, Flask, and MySQL in a team of 4 developers.

### Java App – Database Management System

March 2020 – June 2020

- Built a concurrent and recoverable database management system from scratch for a 3-month-long class project in Java.
- Programmed core components of the DBMS, including buffer pool manager, query parser, lock manager, and query optimizer.

### Java App – University of Washington Campus Path Finder

January 2020 – March 2020

- Designed and implemented an application that searches for optimal paths between campus buildings. Utilized React for frontend interface and the Spark framework for handling backend geospatial data. Tested program correctness with JUnit.