

Elijah Greisz *BS/MS Student*

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Education

09/2019 – present
Seattle

B.S./M.S. Computer Science, *University of Washington*

- Secretary of ACM chapter, admitted member of the Combined BS/MS program.
- B.S. expected 03/2022. M.S. expected 06/2023.
- Software Design & Implementation, Data Structures & Parallelism, Hardware Software Interface, Operating Systems, Distributed Systems, Security, Databases
- GPA: 3.95, Dean's List

Skills

Java, TypeScript, Python, C, C++, C#, MySQL, NoSQL, HTML/CSS, React, Node, Xamarin

Professional Experience

02/2021 – present

Research Assistant, *ICTD Lab @ UW*

- Worked to build the Cold Chain Immunization System, designed to track and provide analytics around the refrigerators and facilities necessary to store vaccines.
- Application is in the process of deployment in Uganda.
- Primarily helped to develop the Web Dashboard and various data visualizations.

06/2021 – 08/2021
Seattle

Software Development Engineer Intern, *Expedia Group*

- Worked to help simplify the user experience for Flight Credit Redemption, an enlarging market post-Covid with hundreds of thousands of customers.
- Implemented functionality to track users and record their sessions to gain insight into pain points and user choices, integrating into the existing React application.
- Built a dashboard aggregating user experience data to inform choices in design decisions.

09/2020 – 06/2021

Teaching Assistant, *University of Washington CSE Department*

- Weekly grading of assignments, teaching section weekly, and holding office hours each week to help students gain an understanding of the material.
- Assisted teaching the Software Design and Implementation Course as well as Computer Programming I.

Projects

04/2021 – 06/2021

Distributed Key-Value Store, *Class Project*

- Designed and built a distributed, sharded, fault-tolerant key-value store using MultiPaxos consensus protocols.

04/2021 – 06/2021

Vaccine Stock Tracker, *Capstone Project*

- Designed an end-to-end system used to manage vaccine stock at various facilities.
- Includes a mobile application made with ODK-X, a Java Spring web server, and a Javascript frontend dashboard to visualize data with libraries like D3.

01/2021 – 03/2021

XK Operating System, *Class Project*

- Implemented a writable file system, multiprocessing (fork-exec), a variable heap and stack, and crash safety on top of a very basic OS.
- Explored and added optimizations, like copy-on-write.

06/2020 – 08/2020

SmartScheduler, *Personal project*

- Built an Android app designed to help users schedule and prioritize their tasks using C# with Xamarin and SQLite.