

# Chan Lee

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## EDUCATION

**Washington University in St. Louis, McKelvey Engineering School**, St. Louis, MO

May 2024

*Major in Computer Science*

Cumulative GPA: 3.85 / 4.0

### **Relevant Courseworks**

Data Structures & Algorithms, Parallel & Concurrent Programming, Systems Software, Artificial Intelligence, Mobile Application Development, Object-Oriented Development, Web Development, Logic and Discrete Mathematics, Rapid Prototype Programming

## WORK EXPERIENCE

**Software Engineer Intern (Vision Automation) | Tesla** | Austin, TX

Aug 2023 - Dec 2023

*Front-End - Typescript, ReactJS, HTML, CSS, GraphQL, Tailwind, Hasura*

- Created an end-to-end group system page to organize 4,000 inspections, display real-time inspection results, and conveniently query vehicle identification numbers in order to support technicians to prevent over 30,000 production quality defects.
- Utilized successive pagination calls of Label Studio API to optimally summarize more than 5,000 tasks on average for each model.
- Refactored outdated codes to more maintainable front-end components by following strict type definition and tailwind guidelines.

**Tech Analyst Intern | Charter Communications** | Maryland Heights, MO

May 2023 - Aug 2023

*Automation & SQL Development - Python*

- Developed a Python automation script using Selenium and SQL queries that compares over 10,000 unique identification numbers in billing statements and post qualification system reports to ensure that the data is up to date with customer status.
- Built a Python script that translates over 1,000 selectivity texts into SQL and utilizes PyAutoGUI to automate the execution of the queries in DBeaver and display the result onto a Tkinter GUI.

**Teaching Assistant | Washington University in St. Louis** | St. Louis, MO

Jan - May 2023

*Data Structures & Algorithms - Java*

- Taught over 50 students about time complexity, sorting algorithms, hash tables, queues, and other data structures.

**Software Engineer Intern | Sobriety Hub**  | St. Louis, MO

Sep 2022 - May 2023

*Full Stack - NextJS, AWS*

- Utilized NextJS and ChakraUI to develop software service that allows the owners of sober living houses to manage and record their residents' information regarding their rents, medication, and more.
- Managed to create a user-interactive tutorial using external JS library which led to a decrease of 70% negative feedback of being lost on how to use the software for first time users.

**Software Engineer Intern (Team Leader) | Dogugonggan Robotics**  | Seoul, South Korea

Jun - Aug 2022

*Full Stack - Vanilla Javascript, NodeJS, PHP, MySQL*

- Developed a user-authenticated web application that allows real time video communication between N to N users by applying SocketIO, Kurento Media Server, and WebRTC API.
- Employed NodeJS to create server pipelines and exchange ICE candidates to ensure users can establish video connections.
- Utilized PHP to store and view recorded videos in a secured MySQL database.

## PROJECT EXPERIENCE

**Re:Loved** 

Feb - May 2023

*Personal Project - SwiftUI, Firebase*

- Developed an iOS social app utilizing SwiftUI and Firebase that allows WashU people to enjoy upcycling in a secure environment.
- Incorporated MVVM architecture to reduce code complexity and increase re-usability of the code.

**WashU Blockchain Society**

Aug 2022 - Jan 2023

*Student Organization Project (Lead Developer) - ReactJS*

- Created a landing page of the organization which aims to create a transaction system that the WashU community can flexibly use.

**Linux File System** 

Nov - Dec 2022

*Course Project (CSE 332: Object-Oriented Software Development) - C++*

- Developed a file system that mimics linux functionalities which are executed by entering commands (ls, cp, rm etc.) to the terminal.

## SKILLS & INTERESTS

Java / JavaScript / React / NextJS / NodeJS / HTML / CSS / Swift / SwiftUI / Objective-C / Python / C / C++ / MySQL / Linux / PHP