

Justin Lee

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EDUCATION

University of Minnesota

B.S. in Computer Science

Minneapolis, MN

Sep. 2021 - May 2025

Relevant Courses: Discrete Mathematics, Linear Algebra, Machine Architecture and Organization, Advanced Programming Principles, Algorithms & Data Structures, Developing the Interactive Web, Intro to Operating Systems, Practice of DB Systems, Program Design & Development

JOB EXPERIENCE

University of Minnesota

Project Assistant - Research Facility Support Services (RFSS)

May 2023 - August 2023

Minneapolis, MN

- Developed and optimized alarm configuration systems for 500+ lab instruments.
- Automated data entry workflows for Oceansoft sensor integrations, reducing manual workload and improving consistency.
- Collaborated with researchers, engineers, and lab managers to deliver technical solutions on schedule
- Troubleshoot sensor configuration issues, ensuring continuous monitoring across multiple active research labs.

Hennepin County Library

Library Assistant

Summer 2017

Minnetonka, MN

- Assisted patrons daily with technology, research tools, and library resources
- Maintained and organized a collection of 30,000+ items, ensuring accessibility and efficiency

PROJECTS

SafeRoute | ReactJS, Google Maps API, MongoDB, Microsoft Azure

- Built a web application that maps high-crime areas near campus to promote safer navigation.
- Developed a ReactJS front-end with Google Maps API overlays for real-time visualization.
- Designed a scalable backend using MongoDB and Azure to support multiple users reliably.

Virtual Community Planner | Auth0, GPT, Python, JavaScript, MongoDB

- Developed a collaborative scheduling and meal planning platform with GPT-powered suggestions.
- Implemented calendar features with daily, weekly, and monthly views for group usability.
- Integrated Auth0 authentication for secure, role-based multi-user access.

Youtube Recommender Extension | ReactJS, Typescript, Firebase, HTML, CSS

- Created a Chrome extension delivering personalized YouTube video recommendations
- Built a responsive React + TypeScript front-end for smooth multi-device interaction.
- Leveraged Firebase for real-time synchronization, ensuring instant tailored suggestions.

TECHNICAL SKILLS

Languages: Python, Java, C, JavaScript (TypeScript), HTML, CSS, SQL, R

Frameworks & Tools: React, Flask, Auth0, Git, Linux, Firebase, MongoDB, Azure

Libraries: NumPy, pandas, Matplotlib, Scikit-learn