

# Luke Karger

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## EDUCATION

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### University of Minnesota, Twin Cities

College of Science and Engineering, Honors Program

Bachelor of Science in Computer Science

Minor in Mathematics

Minneapolis, MN

GPA: 3.803

Expected May, 2028

Expected May, 2028

**Relevant Coursework:** Honors Introduction to Computing and Programming Concepts, Honors Introduction to Algorithms and Data Structures, Honors Discrete Structures of Computer Science.

## EXPERIENCE

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### Personal Projects

June, 2024 – Present

- Created a **Portfolio Website** for myself using **NextJS**, **Tailwind**, and **Typescript** designed to showcase my projects and give more insight into who I really am.
- Created a **To Do List App** for IOS using **React Native** and **Expo**. The To Do List has a section for “Today’s Tasks” and “This Week’s Tasks” and allows for easy addition, deletion, and completion of tasks.
- Collaborated with another student to create a **Web-Based Game** using **Javascript**, **HTML**, and **CSS** in which the user attempts to guess the weather of a certain city as accurately as possible to be rewarded points. This game features an interactive map to survey the surrounding area and is powered by a free **Weather API** and an **interactive map library** made for **Javascript**.

### Carleton College, SLAI Computer Science Summer Program

July, 2023 – July, 2023

- Completed Carleton College’s SLAI program which granted **college credit** upon completion.
- Studied game development, game theory, and machine learning.
- Collaborated with another student in the creation of a fully functional checkers game made with **Python** that featured multiple difficulties of computer opponents and allowed users to play against other players.

### University of Minnesota Talented Youth Mathematics Program

September, 2019 – May, 2024

- Completed the University of Minnesota’s Talented Youths Mathematics Program, learning complex mathematics such as **multivariable calculus** and how to properly communicate mathematical concepts through **professionally written proofs** and **collaborative projects**.

## LEADERSHIP

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### Esports Team Captain, Spring Lake Park High School, Spring Lake Park, MN

October, 2022 – January, 2024

- Led my High School Esports team to the **State Tournament** two years in a row.
- Helped to teach my teammates more about the game as well as finding times to practice together as a team and coordinate traveling as a team to in person events.

### Boys Volleyball, Spring Lake Park High School, Spring Lake Park, MN

March, 2021 – June, 2024

- Played Boys Volleyball for all four years of High School, making JV the first three years and **Varsity** my senior year.
- Helped to **referee** games, acted as a **floor captain** in games, and acted as a **coach** to lower teams.

## AWARDS

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- National Merit Commended Scholar.
- AP Scholar with Distinction.
- Academic Excellence Award (from Spring Lake Park High School).