

# Carlos Chasi-Mejia

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## EDUCATION

**University of Minnesota - Twin Cities**  
*B.S. in Computer Science*

**Minneapolis, Minnesota**  
*Graduated May 2024*

- **Technical GPA:** 3.667 / 4.00
- **Relevant Coursework:** Algorithms and Data Structures, Software Engineering I, Program Design and Development, Intro to Artificial Intelligence, Practice of Database Systems, Intro to Computer Networks

**Google IT Support Professional Certificate – Coursera, Online**

*January 2025*

**NVIDIA AI Infrastructure and Operations Fundamentals – Coursera, Online**

*February 2025*

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## PROJECTS

### *Drone Delivery Simulation with Real-Time Visualization*

*October 2023 – December 2023*

- Collaborated with a team of three in the development of a real-time simulation system for drone delivery service, allowing users to schedule a package delivery on a 3D environment map.
- Refined existing simulation weekly by implementing software design patterns and adding key features using C++, achieving improvement in runtime efficiency.
- Developed a boating system in the simulation, facilitating seamless package transfers across a river.
- Contributed to the implementation of a notification system, providing users with real-time updates on delivery status, resulting in positive user satisfaction.
- Managed a complexity of multi-entity interactions, ensuring smooth transitions of packages between drones, boats, warehouses, and robots.

### *Spotify Playlist Generator*

*July 2024*

- Developed a web application integrating Flask and React to create personalized Spotify playlists based on user's top five most-listened-to-songs.
- Integrated Spotify, OpenAI, and YouTube APIs to enhance user experience by fetching song data, generating detailed descriptions with ChatGPT, and displaying associated YouTube music videos.
- Implemented user authentication and data management on the frontend using React, allowing seamless navigation and interaction.
- Designed and deployed a responsive user interface with React Router for dynamic page navigation and real-time updates.
- Optimized backend API communication in Flask for efficient data processing and interaction with external APIs, ensuring quick and reliable responses.

### *Sorting-Algorithm Visualizer*

*August 2024*

- Implemented a dynamic sorting visualizer in React, displaying animations instantaneously for nine different sorting algorithms, enhancing the understanding of sorting mechanisms.
- Integrated descriptive headers and explanations for each algorithm, providing users with educational insights as they observe the sorting process.
- Developed a responsive design that ensures seamless user experience across various screen sizes, making the visualizer accessible on multiple devices.

### *TripMates*

*November 2024*

- Developed a full-stack trip planning application using React, Gemini AI, Firebase, and Tailwind CSS, providing a modern solution for travel itinerary creation.
- Leveraged Gemini AI to deliver personalized recommendations, generating complete itineraries in under a minute after form submission.
- Utilized Firebase for real-time database integration, authentication, and hosting, ensuring a reliable and scalable backend.

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## SKILLS

- **Skills:** Python, Java, JavaScript/TypeScript, HTML/CSS, SQL, C, C++
- **Technologies:** Git/GitHub, PostgreSQL, MySQL
- **Languages:** English and Spanish

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## WORK EXPERIENCE

### **Target**

Coon Rapids, Minnesota

### *Service Advocate*

*August 2021 – August 2024*

- Collaborated with team members to achieve store sales goals and maintain a clean and organized environment.
- Managed customer inquiries, complaints, and returns, ensuring a positive shopping experience.
- Maintained a prominent level of organization and multitasking, ensuring operational efficiency.