

Christopher Miao

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Education

Masters of Science in Computer Science	Expected May 2025
University of Minnesota Twin-Cities (GPA 3.7/4.0)	
Bachelor's of Science in Civil Engineering and minor in Computer Science	May 2023
University of Illinois Urbana-Champaign	

Skills

Programming: Java, C++, Python, SQL, MongoDB, Software Testing

Framework Tools: CSS, HTML, Python Flask, GitHub

AI/ML: ML, Deep learning, PyTorch, Transformers, NLP, Data preprocessing, Pandas, Numpy

Experiences

Engineer Intern at Village of Bolingbrook, IL	May 2023 - August 2023
<ul style="list-style-type: none">Assisted senior engineers in field work and completed projects in CAD for clients	
Engineer Intern at City of Naperville, IL	May 2022 - August 2022
<ul style="list-style-type: none">Assisted and work with senior engineers oversee construction workAided senior engineers in design and CAD projects	
Engineering Intern at Dupage County DOT	May 2019 - August 2019
<ul style="list-style-type: none">Responsible for reviewing highway permits, processing work orders, answering customer service calls, and organizing documents.	

Projects

Flashcards AI	February 2025 - May 2025
<ul style="list-style-type: none">Built a React frontend and Flask backend for handwritten note uploads and AI-driven flashcard generationTrained a PyTorch model on a formatted Kaggle trivia dataset for flashcard predictionIntegrated ChatGPT API to convert handwritten notes to text	
PostgreSQL Modifications	January 2024 - May 2024
<ul style="list-style-type: none">Modified open source C++ database management systemChanged replacement policy to alternate between FIFO, LRU and MRUForced query selection to be nested loop, merge sort or hash join to compare performanceWrote indexes with B+ tree and hash indexes to compare performance	
Voting System Software Engineering Project	September 2023 - December 2023
<ul style="list-style-type: none">Used waterfall and agile scrum methodologies to create a voting systemThe voting system written in C++ and included doxygen testsRan mock waterfall activities while creating voting systemAdded improvements/changes to created system by running a mock agile scrum sprint	
Personal Project: Movie Finder	July 2023 - August 2023
<ul style="list-style-type: none">Created a website that allows user to search for different moviesConverted IMDB API into database in mysql using mysql workbench and AWSUsed Python, Python Flask, CSS, HTML and MYSQL	