

Eric Kugel

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EDUCATION

Bachelor of Science in Computer Science and Mathematics

Spring 2028

College of Science and Engineering, University of Minnesota-Twin Cities, Minneapolis, MN

GPA: 4.00, University Honors Program

University Philharmonic Orchestra, UMN Competitive Programming Club (Secretary)

SKILLS

- Languages: Java, Python, HTML/CSS/JS, C, C++, GDScript, SQL
- Frameworks/Platforms: Next.js, Python Flask, Google Cloud Platform, MongoDB, EricSQL
- Software: Excel, Word, Matlab, Docker, Linux

PROJECTS

Kids United International Website (kidsunitedint.org), Independent Project

Spring 2024

github.com/EricKugel/kids-united-int

- Created a mobile-responsive website and communication forum using Next.js and MongoDB; hosted using Docker and Google Cloud Run.
- Securely implemented account and session management using next-auth and MongoDB, supporting both Google signin and credentials.
- Implemented users, blog, and comment functionality using MongoDB and Google Cloud Storage.
- Created to the specifications and design requests of the Kids United team and updated based on feedback.

Math Explainer Videos, Independent Project

Spring 2024 - Fall 2024

[Youtube](#)

- Explained two methods for optimization with constraints, using Manim to create animations.
- Improved problem visualization using 3-D illustrations and relatable scenarios.
- Practiced communication through iterative script editing and footage reviews for content accuracy and cohesion.

EricSQL, Independent Project

Summer 2025 - In Progress

<https://github.com/EricKugel/EricSQL>

- Implemented the parsing and execution of SQL queries in Python.
- Created a secure API with Flask to receive queries.
- Currently running the server program on a Google Cloud virtual machine to be the database for a demonstration website (ericsql.erickugel.com).

EXPERIENCE

Teaching Assistant

Machine Architecture and Organization, University of Minnesota

Fall 2025 - Present

- Assisted students with code and gave demonstrations in lab environments.
- Answered questions and explained concepts to students in personal office hours.
- Checked code for accuracy and readability while grading labs and exams.

Computer Science & Math, Mayo High School, Rochester, MN

Fall 2022-Spring 2024

- Graded labs and tests for AP Computer Science A.
- Created a Conway's Game of Life lab to help students practice 2D Arrays.
- Collaborated with two other students to design and build a Java autograder as specified by Mr. Dirks.

Retail

Supervisor, Burlington, Rochester, MN

June 2025 - August 2025

- Led small teams and coached new employees.
- Assisted the management team with closing responsibilities.

Cashier, Burlington, Rochester, MN

June 2024 - August 2024

- Practiced communication, customer service, and teamwork in a faster-paced environment.

Cashier, Michaels, Rochester, MN

June 2023 - May 2024

- Trained new recruits, helped customers, cashiered, recovered aisles, and cleaned.