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, 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 delivered presentations in lab environments.
- Answered questions and tutored 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 the instructor.

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.