

Kaden Bilyeu

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GitHub: <https://github.com/Bikatr7>

Portfolio: <https://bikatr7.github.io/>

Computer science student at UCCS focusing on incorporating AI, LLMs, data science, and NER/NLP into software for real-world applications.

Education

Bachelor of Science in Computer Science, University of Colorado Colorado Springs (UCCS), (Expected 05/2026)

- CS 1450 Data Structures and Algorithms
- CS 2060 Programming with C and AGILE
- CS 2080 Programming with UNIX
- CS 2160 Com Org & Assembly Language

Skills

- **Programming Languages:** Proficient in Python, Java; familiar with C, R, C++, JavaScript
- **Database Management:** MySQL, Oracle SQL, PL/SQL, Data Backup and Recovery, Database Security
- **Technologies & Frameworks:** Git, OpenAI API, mysql-connector-python, DeepL API, discord.py, Gradio, SpaCy, Pillow
- **Methods:** Agile software development, OOP, Debugging, UI/UX, Asynchronous design, CI/CD, API Integration
- **Soft Skills:** Effective Teamwork, Clear Communication, Problem-Solving, Leadership, Project Planning, Technical Documentation

Projects

Japanese-English Preprocessor and Translator (Kudasai) (Jan 2023 — Current)

- Integrated ChatGPT, Gemini, and DeepL APIs with a WebGUI using Gradio, and employed SpaCy for NER/NLP.
- Improved translation speed by 98% by automating and revolutionizing an existing manual process.
- Successfully managed iterative design changes and client requirements over more than a year, culminating in a robust, user-friendly application.
- Actively developed and in use by other parties.
- Investigated and resolved bugs during the course of live hosting on GitHub.

Japanese Language Training App (Seisen) (December 2022 — Current)

- Utilized MySQL and Python to develop the technology.
- Optimized app startup time and overall action speed by 78% by optimizing SQL queries and app storage schema.
- Efficiently integrated database design and implemented a flashcard system, significantly enhancing the learning experience.
- Acquired and utilized proper database backup procedures to ensure database security.

Game Administration Discord Bot (Gamemaster) (August 2023 — October 2023)

- Applied PIL, MySQL and asynchronous design principles in a team setting to create a discord bot.
- Created a method to dynamically assemble “card” images in milliseconds for a discord server of hundreds of users.
- Properly communicated with teammates in a group setting to procedurally access goals and requirements for the bot.
- Ensured the project was properly documented to allow for easy transfer of project ownership if required.

Work Experience

(UCCS), Teaching Assistant, Intro Stats for Data Analysis, (01/2024 — Present)

- Assisted students in mastering R and data analysis concepts. Enhancing their programming efficiency and overall code quality.

Activities

- **Association of Computer Machinery (ACM) Member (10/2023 — Present)**