

# Conner Groth

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## EDUCATION

### University of Colorado Boulder

B.S. Computer Science, Minor in Business

Boulder, CO

Expected: 2027

## TECHNICAL SKILLS

**Languages:** Python, C++, C, JavaScript, TypeScript, HTML, CSS

**ML & Data:** PyTorch, TensorFlow, OpenAI API, Hugging Face, Pandas, NumPy, SQL, PostgreSQL, Redis

**Web & Backend:** React, Next.js, FastAPI, Flask, REST APIs

**Tools:** Docker, AWS, Git, GitHub, Bash, VSCode

## WORK EXPERIENCE

### Software Research Assistant

May 2025 – Present

University of Colorado Boulder – Genetic Logic Lab

Boulder, CO

- Contributing to the development of **SeqImprove**, an open-source tool for **ML-assisted** curation of synthetic biology data.
- Writing and maintaining backend code, enhancing application performance, and refactoring legacy logic for scalability.
- Supporting model integration and annotation workflows while collaborating closely with researchers and engineers.
- Improving project documentation and tooling to support FAIR-compliant data submissions and broader adoption.

### Frontend Web Developer

May 2023 - Aug 2023

Ryno Industries

Erie, CO

- Developed and optimized the company website to enhance usability, aesthetic appeal, and performance, resulting in a **20% increase** in user engagement.
- Built responsive components using **HTML, CSS, and JavaScript**, ensuring cross-device compatibility.
- Worked closely with leadership to translate business goals into visual updates and interactive features.

## LEADERSHIP EXPERIENCE

### Software Engineer Team Lead

March 2025 – Present

Blueprint Boulder

Boulder, CO

- Leading a **student software team** building a trailer booking and volunteer scheduling system for **Need Project**, a nonprofit supporting families with special needs.
- Serving as the **primary client liaison**, translating stakeholder requirements into actionable **technical features**.
- Managing **Agile workflows**, running standups, and ensuring consistent delivery of milestones.

### Co-Founder & Engineer, Fly on the Wall

May 2025 – Present

[flyonthewalldev.com](https://flyonthewalldev.com)

Boulder, CO

- Launched a student-led dev studio building **AI-powered productivity apps** published to the App Store.
- Led app architecture, brand strategy, and GitHub org setup under a formal LLC.

## PROJECTS

### EcoVision- Smart Trash Detection | *PyTorch, Python, FastAPI, Next.js, React, Firebase*

Mar 2025

- Built an **AI-powered recycling assistant** with real-time object detection and ChatGPT-powered recycling tips.
- Trained and deployed a custom **YOLOv8 model** optimized for AMD NPU, achieving **90% detection accuracy**.
- Managed full-stack app deployment with camera input, Firebase auth, and a FastAPI backend.

### Tenoe – ML Music Recommender | *PyTorch, Python, FastAPI, Supabase, Redis, React*

Jan 2025 – Present

- Developing a hybrid **ML recommendation engine** using collaborative filtering and content-based models.
- Integrated Spotify, Last.fm, and AOTY APIs to gather user history, tags, and ratings.
- Engineered scalable backend with FastAPI, Docker, and Redis caching for low-latency responses.

### PulsePlan – AI Academic Planner | *React Native, OpenAI API, Supabase*

May 2025 – Present

- Co-developing a planner that auto-generates time blocks using Canvas data, calendar APIs, and GPT.
- Built Chrome extension to fetch assignments and streamline setup for students.
- Designed mobile-first UI and Supabase backend for authentication and user data storage.