

# 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 & AI:** PyTorch, Hugging Face, OpenAI API, Supabase Vector, n8n, Pandas, NumPy, Redis, PostgreSQL

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

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

## WORK EXPERIENCE

### Undergraduate Researcher - Software Engineering

May 2025 – Present

University of Colorado Boulder – Genetic Logic Lab

Boulder, CO

- Developing **SeqImprove**, a full-stack platform for **AI-assisted** curation of synthetic biology data.
- Building backend services with **Python (Flask)** and **libSBOLj**, optimizing pipelines and integrating APIs.
- Enhancing frontend features with **React** and **Zustand** to improve annotation workflows.
- Collaborating with researchers to deliver production-level research software and **FAIR-compliant** standards.

### Software Engineer Intern

May 2023 - Aug 2023

Ryno Industries

Erie, CO

- Redesigned and optimized company website, improving UX, performance, and **increasing engagement by 20%**.
- Built responsive components using **HTML, CSS, and JavaScript** for cross-device compatibility.

## 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 & AI Software Engineer, Fly on the Wall

May 2025 – Present

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

Boulder, CO

- Founded a student startup building **AI-powered productivity apps**, published to the App Store.
- Leading app architecture, technical planning, and company operations 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.

### PulsePlan – AI Academic Planner | *React Native, Next.js, n8n, REST APIs, Supabase*

May 2025 – Present

- Developing an agent-powered planner that auto-generates personalized schedules using Canvas data, calendar APIs, email scraping, and AI task parsing.
- Designed mobile-first UI and Supabase backend with vector memory, semantic task classification, and AI-powered planning workflows.
- Built Chrome extension and backend ingestion pipelines to extract assignments, deadlines, and events from multiple sources.

### 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.