

ELI J. NEWMAN

845-548-0388 · elijn04@gmail.com · elijnewman.com · [LinkedIn](#) · [GitHub](#)

EDUCATION

University of Denver | Ritchie School of Engineering & Computer Science

June 2026

B.A. in Applied Computing

Coursework: Data Structures & Algorithms, OOP, Database Organization, Web Programming, GenAI & LLMs

EXPERIENCE

President | AI Club @ University of Denver | Denver, CO

Nov 2025 – June 2026

- Building the AI community at the University of Denver; led workshops where 50+ students shipped AI-powered apps in a single afternoon and guest-lectured an engineering course. [duai.vercel.app](#)
- Organized SummitHack 2026, a 24-hour sustainability hackathon securing sponsorships from Cursor.

Applied ML Engineer Intern | Multimodal | New York, NY

June – Sep 2025

- Delivered enterprise AI solutions for Waud Capital Partners and Omaha National, processing 1,000+ financial documents and saving analysts 300+ hours.
- Built a document processing pipeline with n8n, JavaScript, and REST APIs to parse 100+-page investment docs into structured data, cutting analyst time by 90%.
- Ran LLM benchmarks that strengthened QA processes and client demos, directly contributing to 2 signed contracts.

PROJECTS

- **Flick2Split** [*React Native, FastAPI, Firebase, RevenueCat, Gemini OCR*] AI bill-splitting app live on the App Store with 50+ active users. Full product lifecycle from architecture to deployment. flick2split.com
- **Starla** [*Next.js, Firebase, Stripe, Gemini API, Gemini Transcription, Web Search*] AI interview coach: researches companies, generates tailored questions, delivers real-time per-answer feedback with subscription billing. starla.vercel.app
- **Outreach Agent** [*Python, Claude API, Playwright, Google Maps API, MCP, Notion*] Autonomous AI system that finds businesses, analyzes their websites, generates personalized messages, and submits contact forms at scale
- **Lead Engagement System** [*Claude API, n8n, FastAPI*] AI-driven outreach pipeline for a mortgage brokerage cutting manual follow-up time by 80% with personalized, automated communication.
- **Real Estate Email Engine** [*Claude API, Next.js, RentCast API*] AI email generation tool for real estate agents integrating property comp data, client feedback loops, and backend usage analytics.
- **Broncos Film Analysis** [*YOLOv8, ByteTrack, Roboflow*] Computer vision system detecting and tracking players/ball frame-by-frame from NFL game film with annotated video output.
- **AI Newsletter Pipeline** [*Python, LangChain, GitHub Actions*] Fully autonomous daily pipeline: RSS aggregation, AI filtering/ranking, summarization, HTML email generation, and scheduled distribution via CI/CD.
- **Trash Catcher Robot** [*Python, Matplotlib, Pytest*] Physics-based trajectory prediction simulator for a robotic trash interceptor. Modular simulator, predictor, and visualizer built with TDD.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL, Bash

AI / ML: Claude API, LangChain, YOLOv8, RAG pipelines, LLM benchmarking, n8n workflows, MCP, Ollama

Frameworks & Tools: Next.js, React Native (Expo), FastAPI, Flask, Supabase, Firebase, Docker, Hetzner VPS, GCP, Vercel, GitHub Actions, Modal, AWS Lambda, EC2, Claude Code, Cursor

LEADERSHIP

Student Mentor | University of Denver: Mentored 40 students at mountain campus; guided first-year transition programming for 600 students. 2023 – 2024

Sports Official | U.S. Soccer Federation: Officiated 100+ matches for 2,000+ athletes; managed on-field conflict resolution. 2018 – 2023