

Eli J Newman

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I build systems that solve real problems, saving people time and money.

Education

University of Denver, Ritchie School of Engineering & Computer Science
Bachelor of Arts in Applied Computing & Emergent Digital Practices

Denver, CO
June 2026

- Minors: Marketing & Entrepreneurship
- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Database Organization & Management, Web Programming, GenAI & LLMs

Experience

Multimodal

New York, NY

Applied ML Engineer Intern

June 2025 – Sept. 2025

- Delivered enterprise automations for Waud Capital Partners and Omaha National, processing 1,000+ client documents and saving analysts 300+ hours.
- Engineered an automated document-processing pipeline with n8n, JavaScript, and REST APIs to process 100+-page investment docs and write structured data to Google Sheets, cutting analyst time by 90% and boosting data accuracy.
- Built a Python crawler to extract dynamic web content and convert it into normalized Markdown for AI parsing using the Crawl4AI framework.
- Ran LLM benchmarks that strengthened QA and demos, directly leading to 2 signed client contracts.

AI News Newsletter Pipeline

Independent Project

Creator & Engineer

Nov 2025 – Present

- Built an autonomous AI newsletter pipeline that curates and delivers daily AI news digests to subscribers, running 100+ consecutive days with zero failures using Langchain, SQLite, and GitHub Actions.
- Reduced daily operating costs by 80% through strategic model selection and multi-layer caching.

Flick2Split

Independent Project

Creator & Engineer

Dec. 2024 – Present

- Designed and deployed Flick2Split, an AI-powered bill-splitting app live on the App Store with 50+ active users.
- Engineered a React Native and Next.js frontend connected to a FastAPI (Python) backend running on Google Cloud Run.
- Integrated Google Gemini to extract and interpret receipt data, automating split calculations without manual input.
- Owned the full product lifecycle: system architecture, model integration, deployment, monitoring, and user feedback loops.

Skills

Languages: Python, TypeScript, JavaScript, Java, SQL, Bash

AI / ML: LangChain, Hugging Face, YOLO, Roboflow, Google Gemini, Anthropic Claude SDK, NVIDIA Jetson Nano

Cloud & Infrastructure: AWS (EC2, S3), GCP (Cloud Run, Cloud Storage, Firebase), Supabase, Docker, Vercel, Modal

Frameworks: React Native, Next.js, FastAPI, Flask, Expo, n8n, Streamlit

Dev Tools: Cursor, Claude Code, Codex, Git, Postman, DBEaver, Google AI Studio, GitHub Actions, ngrok

Leadership & Activities

AI Club @ DU

Denver, CO

President

Nov. 2025 – Present

- Leading club members in building AI-powered outreach agents for real-world clients.
- Spearheading a computer vision project in collaboration with the Denver Broncos, applying AI to sports analytics and positioning the club as a resource for industry-grade solutions.
- Organizing and hosting the largest AI hackathon in Colorado for Spring 2026, managing logistics, sponsorships, and partnerships to bring together hundreds of students and industry professionals.

U.S. Soccer Federation

Rockland County, NY

Sports Official & Game Coordinator

2018 – 2023

- Officiated 100+ matches for players aged 12–19, impacting over 2,000 athletes.
- Resolved 30+ parent conflicts, strengthening leadership and decision-making skills.