

# Roman DiDomizio

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[Portfolio](#) | [LinkedIn](#) | [GitHub](#)

## OVERVIEW

Entrepreneurial technologist with a CS background and hands-on experience in agentic AI systems and full-stack development. Skilled in designing LLM pipelines, integrating APIs, and building interactive front ends. Founder/CTO of a sustainability-focused platform.

## EDUCATION

### Bachelor of Science in Computer Science

University of Colorado Boulder | Boulder, CO | August 2022-May 2025 | GPA: 3.4

ACHA D1 Ice Hockey Player: Dedicated 20+ hours weekly to compete at the ACHA D1 level

Coursework: Entrepreneurial Projects, LLMs, Intro to AI, Cognitive Science, Data Science, Web Design, Data Structures, Algorithms

## SKILLS

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

**AI Systems:** LangChain, RAG (LlamaIndex + Pinecone), AutoGen, OpenRouter, Agent Design, Prompt Engineering, Fine-Tuning

**Frameworks:** LangGraph, LangSmith, Guardrails AI, Pandas, Streamlit, Flask, React, React Native, Node.js, Tailwind, OpenGL

**Platforms & Tools:** Unreal Engine 5.3, Make, Retool, Git, MongoDB, MySQL, Postman, Jupyter, Apps Script, Looker Studio

**Product & Team Ops:** Notion, Airtable, Jira, Linear, Figma, Miro, Agile Methodologies (Scrum, Kanban, Lean)

## EXPERIENCE

### Technical Product Manager Intern - AI & Immersive Design | The Verse (WalkXR) | Remote | March 2025–Present

- Leading AI product development for WalkXR, a gamified therapeutic platform for emotional health and well-being
- Managing three Agile workflows in Notion with detailed backlogs, Kanban boards, sprint planning, and Miro diagrams
- Building an LLM simulation system using Sheets, Apps Script, and OpenRouter API to generate synthetic training data
- Replaced live testing with persona-driven simulations, increasing iteration speed and training data volume by over 500%
- Prototyping high-EQ agents using LangChain, LangGraph, RAG, AutoGen, and Guardrails, deployed via Flask API
- Translating simulation output into UX and tuning insights using LangSmith, Pandas, and Streamlit dashboards
- Independently developed a WalkXR demo in UE 5.3 as an onboarding project; now used as the flagship proof-of-concept

### Co-Founder & CTO | Sugar | Boulder, CO | September 2024-Present

- Leading the full-stack development of Sugar's mobile app using React Native with Expo and TypeScript for a clean UI/UX
- Architecting backend systems with Node.js and MongoDB, focusing on scalability and security optimization
- Driving Agile (Lean, Kanban) processes with Jira to enhance app features and align tech with business objectives
- Establishing robust CI/CD pipelines via GitHub and Heroku to ensure efficient deployment
- MVP launching on the IOS App Store summer 2025, with initial adoption from local Boulder businesses confirmed

### Tech Director | HackCU | Boulder, CO | August 2024-May 2025 | [Link to HackCU 11 Website](#)

- Led full-cycle web development for HackCU 11, Colorado's largest collegiate hackathon, with 187 participants
- Designed and built a custom ski-themed website using Figma, React, TypeScript, and Tailwind CSS
- Managed a small team using Agile (Scrum), GitHub, and Plane; integrated updates from cross-functional teams
- Mentored a junior tech team member for transition into the new Tech Director role for HackCU 12

## PROJECTS

### LLMfeed | Future of Programming: LLMs? | Spring 2025

- Built an automated AI-content pipeline (Python/Flask) using OpenRouter & prompt engineering for script/visual generation
- Engineered backend multimedia workflows (pydub, MoviePy), automating TTS integration & dynamic video editing

### 3D UFO Adventure | Computer Graphics | Fall 2024

- Created a graphically complex 3D cyber-city simulation with UFO navigation using advanced OpenGL techniques and C
- Applied 3D modeling, texturing, blending, and dynamic lighting to create an immersive, user-controlled experience

### AI Mancala Player | Introduction to Artificial Intelligence | Fall 2024

- Developed an AI agent for Mancala in Python, leveraging Minimax and Alpha-Beta Pruning for optimal decision-making
- Designed a heuristic evaluation function and simulation framework that outperforms players with a 97-99% win rate

### Mountain Hike Planner | Object-Oriented Analysis and Design | Spring 2024

- Designed an interactive Java desktop app for hikers to customize gear selection using JavaFX and Jackson
- Applied Singleton, Factory, Observer, and Strategy patterns, with unit and BDD testing, ensuring 80% code coverage

### A Love Letter to Love Letter | Software Development Methods | Summer 2023

- Developed a full-stack web-based card game using Python, Flask, PostgreSQL, JavaScript, and HTML/CSS
- Collaborated with a team of four using GitHub, Trello, and Agile (Scrum) for development and project management