Lucy Manalang

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EDUCATION

Macalester College — Bachelor of Arts, expected May 2027
Major Computer Science, Minor in Studio Art — *St. Paul, MN*

- Lealtad Merit Scholarship
- Dean's List Fall 2023, Fall 2024, Spring 2025
- GPA: 3.84

Cornell University — May 2025 – August 2025
Online Certificate in Machine Learning Foundations

EXPERIENCE

Break Through Tech, Anote AI — May 2025 – Present
AI/ML Fellow — *Remote*

- Selected from 2000+ applicants for the Break Through Tech AI Program at Cornell Tech
- Fellow for a 9-month program that focuses on machine learning and artificial intelligence
- Collaborate with 8 other fellows and AI startup team to optimize AI models for financial use
- Communicate with team members, financial startup staff, and program staff to plan project via written and verbal communication
- Earned a Cornell University AI/ML Certificate for completion of Foundations Course

Macalester College Math, Statistics, Computer Science Department — January 2024 – Present
Data Structures Head Teacher's Assistant — *St. Paul, MN*

- Manage and train 4 other Teacher's Assistants for Data Structures
- Hold office hours 5 hours a week to assist students
- Reviewed and provided feedback on student projects via GitHub Pull Requests

Macalester College, University of Minnesota — May 2025 – August 2025
Research Assistant — *St. Paul, MN*

- Assist a research team with the development of a Extended Reality Drawing App
- Implement new Observation-Based features to interact between 2D and 3D in XR

Macalester College Residential Life — August 2024 – May 2025
Resident Assistant — *St. Paul, MN*

- Mentored and advised over 40 first-year students
- Communicated daily with my supervisor and team
- Enforced policy to ensure the safety of residents
- Successfully advocated for and facilitated the installation of stall gap privacy covers in dorm bathrooms, improving resident comfort

PROJECTS

AI-Powered Personal Trainer | *Python, OpenAI API* — January 2026 - February 2026

- Developing an AI personal trainer that integrates fitness tracker API data to generate adaptive and personalized training plans.
- Built data pipelines to process metrics including heart rate variability, sleep, recovery, and training load.
- Leveraging OpenAI models to synthesize performance trends and produce actionable workout, pacing, and recovery recommendations.

Multimodal RAG Chatbot for Anote AI | *Python, Ollama* — September 2025 - December 2025

- Built a multimodal RAG system that answers questions using text and images with cited sources.
- Implemented hybrid retrieval (BM25 + embeddings) for improved relevance.
- Designed a modular architecture allowing easy model and backend replacement.

TECHNICAL SKILLS

Languages: Java, Python, C, Swift, C#, JavaScript, HTML/CSS, SQL
Frameworks and Libraries: React, Node.js, JUnit, TailwindCSS, PyTorch, pandas, NumPy
Developer Tools: Git, Unity, Figma, Bash