Lewis Arnsten
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EDUCATION
University of Chicago   Chicago, IL
B.A. in Computer Science with a Specialization in Machine Learning   June 2023
B.A. in English Language and Literature
GPA: 3.67/4.00
Relevant Courses: Mathematical Foundations of Machine Learning, Introduction to Neural Networks, Introduction to Computer Vision, Mobile Computing

SKILLS
Languages – Python, C, C++, JavaScript, Solidity, Swift, HTML, CSS, SQL
Frameworks – PyTorch, SciPy, PIL, Pandas, Numpy, Web3.js, React.js
Misc. Software – Git, Unix

EXPERIENCE
Jason Salavon Studio   Chicago, IL
Lead Developer   Feb 2021 – Present
- Worked closely under artist Jason Salavon at his University of Chicago-based studio to create TODEM [latentculture.com/todem], a mosaic GIF artwork of unprecedented size (5.8B pixels) built using cutting-edge generative AI and published using the Ethereum ERC-721 standard.
- Lead product development from end-to-end. Served as the programming backbone and worked collaboratively on all aspects of the project including backend, frontend, rendering, data management, AI, and security.
- Created and iteratively improved the UI and UX for TODEM–an interactive, immersive map-style interface.
- Designed and programmed the rendering pipeline for TODEM. Invented a workflow for rendering "gigascale" animations involving complex data pipelines, multiprocessing, and the implementation of generative AI–focusing on conditional image synthesis.
- Built all blockchain infrastructure for TODEM. Drafted, tested, optimized, and oversaw publication of the TODEM contract [contract link] netting over $100,000 in total sales.
- Gained experience and confidence tackling problems from all-across the tech stack.

Coding4Youth   Remote
Instructor   June 2020 – September 2020
- Instructed children ages eight to sixteen in Javascript, HTML, CSS, and Minecraft Lua.

New York Stem Cell Foundation   New York, NY
Automation Engineering Intern   June 2017 – August 2019
- Spent three consecutive summers programming methods, modules, and workflows for pipetting robots.
- Integrated machine learning and computer vision algorithms into procedures for quality control.

Ski Butternut   Great Barrington, MA
Instructor   December 2015 – March 2019
- Ski instructor for children ages four to eight at a family ski mountain.