

David Andras

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Education

- University of Illinois Chicago (UIC)**, Bachelor of Science in Computer Science Expected Dec 2028
- Cumulative GPA: 4.00 / 4.00
 - Relevant Coursework: Data Structures, Programming Practicum, Applied Linear Algebra, Program Design II

Skills

- Languages & Web:** Python, C/C++, Java, JavaScript, C#, HTML, CSS
- Frameworks & Libraries:** PyTorch, Hugging Face, vLLM, OpenCV, Flask, React, Socket.IO
- Tools & Platforms:** Docker, Kubernetes, Linux, Git, PostgreSQL, nginx, Cloudflare Tunnel, Unity, VS Code

Experience

- LLM Reasoning & Evaluation Research Intern**, UIC Computer Science Department Jun 2026 - Jul 2026
- Designed five configurable reasoning benchmarks—SORT, NBC, CMPP, LBC, and VC—covering sorting, number-base conversion, lexical comparison, string length, and vowel counting.
 - Evaluated Chain-of-Thought, Plan-and-Solve, and Symbolic CoT across Qwen3-14B, Phi-4, Gemma-3-12B, Mistral-Small-24B, and Llama-3.1-8B using containerized vLLM jobs on Nautilus Kubernetes GPUs.
 - Parallelized batched inference for five times the throughput and improved valid-output parsing from 37/250 to 238/250; Symbolic CoT reached 85.2% on SORT-16 versus 16.4% without reasoning.

Projects

- Self-Hosted Portfolio Website – HTML, CSS, Docker, nginx, Cloudflare Tunnel** Jul 2026 - Aug 2026
- Built and self-hosted a responsive static portfolio on Ubuntu using Dockerized nginx.
 - Published it through a localhost-only Cloudflare Tunnel and automated deployments with a shell script.
- Creator Bridge – Hackathon Project – React, Flask, PostgreSQL, Socket.IO** Feb 6-7, 2026
- Built a portfolio platform for artists to upload work, follow creators, and post blogs with live updates.
 - Designed the PostgreSQL schema and implemented Flask routes for user accounts and blog posts.
- Computer Vision Pong Game – Python, OpenCV** Oct 2024 - Apr 2025
- Built a controller-free game interface where players used blue and green markers to control paddles.
 - Implemented color thresholding with OpenCV and NumPy for real-time marker tracking.
 - Contributed to early test runs of a game later played by 500+ students at a live event.
- Progressive Flappy Bird Mod – Python, Pygame** Aug 2024 - Sep 2024
- Added score-based speed, pipe-frequency, and gap scaling to an open-source Pygame Flappy Bird clone.
 - Adapted it for a 1280×1024 cafeteria arcade cabinet with persistent play and high-score counters.
 - Recorded 3,000+ play sessions without a crash.

Involvement

- AI Special Interest Group Member**, Association for Computing Machinery (ACM) Aug 2025 - Dec 2025
- Built and tuned a PyTorch housing-price prediction model using real-estate data.