

# Aidan Andrews

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## EDUCATION

**University of Illinois at Urbana-Champaign — James Scholar**

*B.S. Engineering Physics: AI/ML Focus, Minors in Computer Science and Math*

*Expected: May 2026, GPA: 3.9*

## PUBLICATIONS

**[Can Transformers Perform Low-Level Control In-Context?](#)**

Under Review

- Learning for Dynamics & Control Conference (L4DC 2026). Work conducted at UC Berkeley BAIR.

## RESEARCH EXPERIENCE

**Robotics Researcher — KIMLAB**

Aug 2025 – Present

*University of Illinois at Urbana-Champaign*

*On-Site*

- Investigating embodied foundation models for Unitree G1 humanoid manipulation using vision-language-action models.
- Integrated GR00T N1.5 with Isaac Sim/Lab, implementing real-time streaming control and comprehensive state logging.
- Built ROS2 bridge architecture for SO-101 (single-arm) manipulator as diagnostic testbed for teleoperation workflows.
- Implementing hierarchical control: VLA-based upper-body manipulation with stabilization policies for balance.

**AI Researcher — BAIR — Prof. Gireeja Ranade**

April 2025 – Present

*UC Berkeley AI Research Lab*

*Hybrid*

- Conducted research on transformer-based control, applying in-context learning to stabilize nonlinear and unstable dynamical systems (cartpole, acrobat).
- Designed and implemented a GPT-2-based few-shot controller that learns control strategies without retraining.
- Demonstrated generalization to unseen dynamics without weight updates or explicit system identification.

**AI Researcher — AIFARMS, NCSA, CDA — Prof. Vikram Adve**

Oct 2024 – Present

*University of Illinois at Urbana-Champaign*

*On-Site*

- Professor leveraged our research to co-found AgAnswers.ai; currently serving as CTO and founding engineer.
- Researching agentic LLM systems for agriculture: hierarchical multi-agent orchestration, context retrieval/management, and task delegation across specialized agents.
- Developing knowledge graphs for structured data representation; building tools (CSV, Shapefile agents) enabling LLMs to interact meaningfully with heterogeneous farm data streams.

## TEACHING EXPERIENCE

**Course Assistant & Project Manager — CS 124**

Dec 2023 – May 2024

*University of Illinois at Urbana-Champaign*

*On-Site*

- Tutored students and led office hours for introductory computer science course.
- Mentored undergraduate teams through semester-long AI projects (Honors section).

## INDUSTRY & ENGINEERING EXPERIENCE

**CTO & Founding AI Engineer — [AgAnswers.ai](#)**

May 2025 – Present

*Full-stack AI platform with multi-agent orchestration, vector DBs, and knowledge graphs*

*Remote*

**AI Engineer — BrightTech AI & Qsystems AI**

May 2025 – Aug 2025

*Built AI tools and CrewAI-based multi-agent orchestration for enterprise workflows*

*On-Site*

**Founding AI/ML Engineer — Startup (NDA)**

May 2024 – Aug 2024

*Novel RAG architectures and hybrid embedding classification for resource-constrained NLP*

*Remote*

**Founder — [AAXIOM.org](#) Startup Portfolio**

March 2023 – Aug 2025

*NVRALONE (\$10K/month peak), IlliniPlan (1k+ users), Voxed (Acquired May 2025)*

## PROJECTS — [AIDANANDREWS.INFO/PROJECTS](https://aidanandrews.info/projects)

**[Manim Video Agent](#)** | LLM, In-Context Learning – Audio/video agent with recursive error correction

**[Devanagari Recognition](#)** | TensorFlow – CNN for handwritten language recognition

**[Climate Predict](#)** | Rust – Multi-regression models for temperature prediction

**[MinLLM](#)** | Python – Zero-dependency LLM workflow framework ( 100 LOC)

**[IlliniPlan](#)** | React, Postgres – Course scheduler (1k+ users, 10k+ schedules)

**[Voxed.ai](#)** | Google Cloud, OpenAI – AI notebook with RAG (Acquired May 2025)

## LEADERSHIP & EXTRACURRICULARS

**Former D1 College Hockey** | UIUC ACHA Division 1 **Chess** | 2000 OTB, training for FIDE Master

**Pro Bono Projects** – Apps, AI tools, and websites for community members at no cost

**BuildIllinois Cohort** **Treasurer, Illini Business Forum** **Content Creator** | 11k+ followers

TECHNICAL SKILLS

**Languages:** Python, C++, TypeScript, Rust, Julia  
**Robotics:** ROS2, Isaac Sim/Lab, MuJoCo, Teleoperation  
**ML/AI:** PyTorch, TensorFlow, Transformers, VLA  
**Infrastructure:** Docker, Linux, Git, AWS, CUDA

OTHER

**Clubs/Organizations:** NSBE, MEP  
**Community:** Run educational Discord server (1k+ members) focused on CS, ML/AI, Math, Physics