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Independent research on when perception should abstain — UAV cameras first (AegisLand), language models second (AbstainBench). I freeze holdouts, including failures. Simulation only; not flight software.

Research

Now

AegisLand — perception reliability

Independent · Python · simulation

Preregistered gates on perception overconfidence and calibrated abstention. Phase 6B: synthetic unsafe 43% → 1%. V3 redundant: unsafe 84.2% → 2.4%. Phase 10R frozen holdout mixed/failed overall (mean error improved; tail, 20% miss rate, coverage under shift failed). Live cockpit. safety_acceptance = false.

2025–26

AbstainBench

Independent · JS · WebLLM

Local-first 30-question benchmark for answer vs. abstain. Offline baseline plus optional in-browser Llama 3.2 1B. No API keys.

Selected making

2025

ECHO / FIELD

Canvas · Web Audio

Generative instrument: motion, voice, and memory. Live in the browser.

2025

StudySync AI

Product

AI study product; 200+ peak active users.

2025

TennisRank AI

JS · Supabase

Private team ranking tool (invited accounts; not a public demo).

Experience

2026

Software Development Intern — OpenStage Gym

Production AI for OpenStage/Seagulls: exercise search, chat UX, tracing/QA, routing / memory / safety / agents.

2026

AI Research & Development Intern — Cruze

Early-stage AI/software research for product problems.

2026

Growth Intern — Exovista

Experiments and product execution at a startup.

2026

Game Design Team Member — StemE

Interactive features and technical design.

Education & highlights

Now

River Islands High School · Delta College

College CS coursework. SkillsUSA Regional Champion, 3D Visualization & Animation (advanced to state). 2nd, Python Game Jam. 5th of 25+, AI Collective Hackathon.
