# Jaden Zhang

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## Education

**Harvard University** Cambridge, MA

*Bachelor of Arts in Computer Science and Statistics, Minor in Neuroscience | GPA: 3.95/4.0* *May 2028*

- **Relevant Coursework:** Data Structures & Algorithms, Systems Programming, Machine Learning, Probability & Statistical Inference, High Performance Computing (CUDA)
- **Clubs and Activities:** Harvard Competitive Computing Club (ICPC Regional Competitor), Tech for Social Good (Director of Engineering), HackHarvard (Director of Technology), Teaching Fellow (ES 30)

## Experience

**Founding Engineer** January 2026 – August 2026

*The Intelligence Company (Design Arena) | designarena.ai | 6M+ users* *San Francisco, CA*

- Built Prediction Arena (predictionarena.ai), a live benchmark scoring frontier LLMs on real-money prediction markets; grew to 100,000+ users, covered by Forbes, xAI's Grok 4.20 launch, Elon Musk, and Polymarket's CEO.
- Automated leaderboard evaluation by training a Bradley–Terry preference model on millions of human pairwise votes, using Fisher-information sampling to reach stable rankings with 73% fewer matchups (3,000 → 800).
- Cut inference spend by 20% by re-architecting the model-serving stack with a multi-provider routing layer; rebuilt Design Arena's scoring pipeline on parallelized EC2 instances, cutting runtime from 5 hours to 20 minutes.
- Shipped enterprise SSO/compliance and Design Arena Premium, the paid subscription tier; forward-deployed with Google and Meta to deliver custom model-evaluation reports.

**Software Engineer Intern** May 2025 – August 2025

*Kinaxis* *Ottawa, ON, Canada*

- Enabled autonomous agentic orchestration across seven critical user-facing components of Kinaxis's supply-chain platform (tens of thousands of enterprise users) by implementing Model Context Protocol (MCP) servers in C#.
- Strengthened system visibility and end-to-end reliability by building React monitoring interfaces and an automated Playwright test suite covering the new agentic workflows.

**Software Engineering Team Lead** February 2025 – May 2025

*Harvard Tech for Social Good | Client: NIOSH* *Cambridge, MA*

- Led a team of five engineers building a Retrieval-Augmented Generation (RAG) system for the National Institute for Occupational Safety and Health, surfacing cited insights from decades of mining-safety research.
- Designed the system architecture, integrating Supabase and vector databases to index thousands of technical PDFs.

**Software Engineer** September 2024 – January 2025

*Harvard Tech for Social Good | Client: UNICEF* *Cambridge, MA*

- Led database modernization for UNICEF's GeoSight platform, redesigning SDMX pipelines and data models to improve query efficiency and cross-country data exchange.
- Reduced data-synchronization latency between GeoSight and UNICEF's Data Warehouse by optimizing synchronization algorithms; recognized with a Spotlight Mention at FOSS4G Brazil 2024.

## Projects

**Atlas** | React, Supabase, GPT-4o, Whisper, Orkes Conductor April 2025

- Won Best Use of Orkes Conductor at Caltech HackTech 2025 for an AI civic-transparency platform converting government budgets and meeting videos into interactive maps, analytics, and RAG-based natural-language search.

**A.phrase.ia** | React Native, Expo, FastAPI, OpenAI API, Mixtral September 2024

- Won Best Use of LLMs at HackMIT 2024 for an assistive communication app for aphasia patients, generating predictive emoji-based sentences with Markov chains, LLMs, and Mixtral-powered contextual image generation.

## Technical Skills

**Languages:** Python, C#, TypeScript/JavaScript, SQL, C/C++, R
**AI & ML:** LLM evaluation & benchmarking, preference modeling (Bradley–Terry), RAG, MCP, PyTorch, CUDA
**Frameworks & Tools:** React, Next.js, FastAPI, Node.js, Supabase/PostgreSQL, Docker, AWS, Git, Playwright