

Jaden Zhang

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EDUCATION

Harvard University

Cambridge, MA

Bachelor of Arts in Computer Science and Statistics, Minor in Neuroscience — GPA: 4.0/4

May 2028

- **Relevant Coursework:** Data Structures and Algorithms, Systems Programming, Statistical Inference and Probability, Linear Algebra, Multivariable and Vector Calculus, Discrete Mathematics
- **Clubs and Activities:** Harvard Competitive Computing Club (ICPC Regional Competitor), Harvard Tech for Social Good (Senior Software Engineer), HackHarvard (Director of Technology), Teaching Fellow (SEAS Engineering Sciences 30)

EXPERIENCE

Intern Software Engineer

May 2025 – August 2025

Kinaxis

Ottawa, ON, Canada

- Enhanced Kinaxis' supply chain orchestration platform architecture across seven critical user-facing components.
- Implemented agentic features in C# using Model Context Protocol servers to enable autonomous orchestration.
- Built React.js interfaces and Playwright tests to strengthen system visibility and ensure end-to-end reliability.

Lead Software Engineer

February 2025 – May 2025

NIOSH (National Institute for Occupational Safety and Health)

Cambridge, MA

- Led a team of five engineers developing a Retrieval-Augmented Generation (RAG) system for NIOSH to surface insights from decades of mining research.
- Designed end-to-end system architecture integrating Supabase and vectorized databases to index and retrieve data from thousands of technical PDFs with source citations.
- Built scalable full-stack components enabling semantic search and intelligent document retrieval using AI and machine learning models.

Software Engineer

September 2024 – January 2025

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.
- Optimized data synchronization algorithms between Geosight and the Data Warehouse, reducing processing latency and improving scalability.
- Recognized with a Spotlight Mention at FOSS4G Brazil 2024, the world's largest geoinformation conference.

PROJECTS

Atlas | Supabase, React, OpenAI GPT-4o, Whisper, Pandas, WolframAlpha API, Orkes Conductor

April 2025

- Winner of Caltech HackTech 2025 Best Use of Orkes Conductor for an AI-driven civic transparency platform.
- Built a full-stack system converting government budgets and meeting videos into interactive maps, analytics, and search tools.
- Implemented RAG-based natural language querying with GPT-4o and Whisper for document and transcript understanding.
- Developed orchestration pipelines and data retrieval systems with Supabase and Conductor.

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

September 2024

- Winner of HackMIT 2024 Best Use of LLMs for an assistive communication app empowering aphasia patients.
- Built a mobile web app generating predictive emoji-based sentences using Markov chains and LLMs to enhance expressive accuracy.
- Integrated Mixtral for contextual image generation, enriching visual communication in real time.
- Developed a FastAPI backend and React Native frontend for seamless, low-latency user interaction.

AWARDS

Harvard ICPC Regional Competitor · Caltech HackTech 2025 Best Use of Orkes Conductor · HackMIT 2024 Best Use of LLMs · Nighthacks 2024 Popular Vote Winner · GooseHacks 2023 Best Beginner Hack