

ZHIHENG(JAMES) WENG

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EDUCATION

University of Illinois at Urbana-Champaign (U Illinois)

Bachelor of Science in Computer Science + Education (Learning Science)
Grainger College of James Scholar Honor

Dec 2026
GPA: 3.80/4.00
Fall 2025 - Present

Massachusetts Institute of Technology (MIT)

Game Lab Summer School

Courses: Introduction to Time Series Modeling with Applications in Economics and Public Health

Summer 2023

Stanford University, Scholar AI4ALL

- Immersed in AI through lectures, hands-on research projects, and mentoring activities
- Engaged in small-group research projects led by graduate students and post-docs in Computer Science and AI

Summer 2020

EXPERIENCE

Siebel School of computing and Data Science (SSCDS), U Illinois

Course Assistant (CS124)

- Guide 300 students through problem decomposition on assignments spanning data structures, algorithms, and programming
- Identify and address conceptual gaps through weekly office hours; translate complex technical concepts for diverse learning backgrounds

Champaign, IL
Aug 2025 – Present

RESEARCH

Department of Educational Psychology

Undergraduate Research -- Effect of College education on Social-Emotional Development

- Contributing to a study examining the causal effect of college education on Social, Emotional, and Behavioral (SEB) skill development across a 30,000-person longitudinal dataset
- Supporting research design, data organization, and pipeline setup for Causal Forest modeling (AIPW framework) targeting peer-reviewed publication

Champaign, IL
Spring 2026 – Present

Undergraduate Research Scientific Advancement (URSA)

Undergraduate Research -- LLM-Based Mathematical Equation Relation Extraction

- Completed 100+ annotations for a mathematical derivation graph dataset; contributions support model training for LLM-based equation relation extraction
- Contributing to annotation methodology and dataset quality assurance; project targets conference publication

Champaign, IL
Spring 2026 – Present

PROJECTS

OhMyTSS (SWIFT)

Co-Founder | Developer

- Integrated Apple HealthKit API to ingest and process wearable workout data in real time, transforming raw sensor streams into readiness and training-load insights with on-device, privacy-first architecture
- Diagnose user-reported issues, implement data parsing and validation fixes, and ship stability improvements to active user base

Nov 2025 - Present

Meeting Minion — AI Meeting Summarizer (Python)

Team Lead & Developer, SSCDS, U Illinois

- Led full lifecycle development of a production backend system with real users: designed architecture, coordinated cross-functional team, and deployed end-to-end transcription and summarization pipeline
- Integrated third-party LLM (Ollama) and WhisperX transcription model with SQLite persistence layer; enforced engineering standards via CI/CD, PR reviews, and pytest suite (64+ tests, 100% pass rate)

Aug 2025 – Jan 2026

Seizure Prediction Wristband — Patented Device (C/C++)

Initiator & Team Lead

- Built end-to-end ML pipeline for real-world medical application: collected and processed heart rate and humidity sensor data, engineered time-series features, and trained a classification model validated via cross-validation to detect pre-seizure patterns on-device

2022 – 2024

- Managed full project lifecycle from hardware prototyping to algorithm deployment; resulted in registered German utility patent (DE 20 2023 107 669) and peer-reviewed publication in Highlights in Science, Engineering & Technology (2023)

ACTIVITIES & AWARDS

Contests and Competitions

- American Invitational Mathematics Examination (AIME) — 11/15 2023
- American Mathematics Competition 12 (AMC 12) — Top 1% (135/150) 2022
- USA Computing Olympiad (USACO) — Gold Division 2021-2022