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Education

Purdue University

Bachelor of Science in Artificial Intelligence

Expected Graduation - December 2027

West Lafayette, Indiana

Mission San Jose High School

Class of 2024

Fremont, California

Relevant Coursework

- CS 243 - Artificial Intelligence Basics
- CS 176 - Data Engineering In Python
- STAT 511 - Statistical Methods
- PHIL 256 - Philosophy of Artificial Intelligence
- CS 182 - Foundations of CS (Discrete Math)
- CS 193 - Tools (Git/Command Line)

Experience

Purdue AI For Musicians Lab Co-Lead - Research Fellow

Aug 2024 - Present

- Co-authored a paper accepted at **NeurIPS 2025** AI for Music Workshop detailing competition results and benchmarking of AMT models from Google, Spotify, and ByteDance, and competitors.
- Led a 25-member research team developing algorithms for polyphonic automatic music transcription (AMT), converting multi-instrument audio into symbolic formats like MIDI and sheet music.
- Designed and implemented the scoring infrastructure for the 2025 AMT Challenge, quantifying pitch, onset, and offset accuracy through a novel F1-based evaluation metric.
- Curated and preprocessed a novel 100+ piece multi-instrument dataset, collaborating with composers across three institutions to ensure quality and model compatibility.
- Organized the IEEE-sponsored 2025 AMT Challenge, attracting international participation.

Berkeley AI Research (BAIR) Lab - Student Researcher

Jun 2023 – Present

- Research project with a team of UC Berkeley AI Research Lab (BAIR) Researchers Under Prof. Kurt Keutzer Using Machine Learning to Translate Underserved Asian Languages to English Text.
- Developing and curating a comprehensive dataset of Sanskrit OCR text pairs by collecting, cleaning, and aligning OCR outputs with corresponding text, enabling the development of future OCR models.
- Led the textual data collection, cleaning, and annotation of millions of multilingual texts.

Purdue Governance and Responsible AI Lab (GRAIL) - Research Affiliate

Mar 2025 - Present

- Responsible AI Research under Professor Schiff in the Purdue GRAIL Lab.
- Contributing to the creation of high quality datasets of scholarly knowledge about AI's workforce impact.
- Project contributes to a larger research initiative making AI workforce research more accessible and policy-relevant.

Music & Responsible AI Project - University of the Arts, London - Research Assistant

Sept 2025 - Present

- AI+Music Research with Prof. Bryan-Kinns involving responsible AI music generation.
- Music and Responsible AI (MusicRAI) research project to reduce bias in AI music generation and analysis
- Engineered and trained Music GenAI models, optimizing them for public use and packaging them for distribution.

The Data Mine of the Rockies - Undergraduate Researcher

Aug 2025 – Present

- Collaborated with the National Space Intelligence Center (NSIC) on GPS signal anomaly detection.
- Algorithm refinement and performance upgrades and identifying storage strategies and efficiencies for large datasets.

Projects

Klatch Social | Swift, iOS Development, Firebase

Apr 2025 - Present

- Building Klatch iOS Social Media App.

Purdue Autonomous Robotics Club

Aug 2024 - Present

- Helped Build AI Algorithm to Scan Sheet Music to Convert to MusicXML Format for Input into a Robotic Piano Hand.

Technical Skills

Languages: Knowledge of Python, Java, Swift, SQL, & R

Developer Tools: Various AI Tools and APIs, Google Colab, GitHub, Google Suite, Microsoft Office

Awards and Accomplishments

- Paper Accepted to NeurIPS AI For Music Workshop
- 2025-2026 Computing Research Association Outstanding Undergraduate Researcher Award Honorable Mention
- Dean's List and Semester Honors (Fall 2024, Spring 2024)
- Hello World Hackathon Organizer (2025)
- AI for Change Hackathon Winner (2024)
- California Golden State Seal Merit Diploma (2024)