Jeffrey Hoang

Pomona, CA | hoangjeffrey04@gmail.com | hoangjeffrey04@gmail.com |
https://helixsystems.org/docs/interactive-robotics-guide | https://auroradatahub.net/projects/sloka-dashboard |
https://novatech-labs.io/research/ai-motion

Introduction

I’m a computer science student with a passion for building intelligent systems that solve real-world problems. Over the last few years, I’ve worked on projects spanning AI-driven education, 3D human-pose estimation, and robotics. I’m always looking for opportunities to turn innovative ideas into impactful solutions that help people.

Education

California Polytechnic University, Pomona Aug 2024 - Current
Bachelor of Science in Computer Science GPA: 4.0/4.0

- **Expected Graduation Date**: Dec 2025
- **Relevant Coursework**: Numerical Methods, Machine Learning, Artificial Intelligence, Data Structures
- **Awards**: Dean's List, President's List

Experience

Student Research Assistant Aug 2025 - Current
Cal Poly Pomona | Pomona, CA
*Supervisor:**Dr. Hao Ji, P.h.D.**, Associate Professor*

- Assisted in designing and implementing experiments, collecting data, and performing quantitative analysis to support ongoing research projects.
- Developed scripts and tools (Python/SQL) to clean, visualize, and interpret datasets, improving workflow efficiency and research reproducibility.
- Collaborated with faculty and graduate researchers to document findings, prepare reports, and contribute to conference or journal-ready materials.

Projects

Machine Learning - HTGR Project Aug 2025 – Dec 2025
Software Engineering Association | Pomona, CA

- Directed a small team in developing a time-series classification pipeline for predicting sudden car movements using multi-axis accelerometer data.
- Implemented and optimized Support Vector Machine (SVM) models with a One-vs-Rest strategy in scikit-learn, achieving over 85% classification accuracy.
- Performed data preprocessing, feature scaling, and k-fold cross-validation to improve model generalization.

Skills

Technologies: Java, Python, Javascript, HPC, GPU, HTML, CSS, Tailwind, Django, Flask, React, Next.js