

Isaac Wang

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US Citizen in San Francisco, CA

Education

- B.S. in Computer Science from Purdue University in IN Status - Expected Graduation Dec 2026

Work History

AI Development Intern at Trumid, US June 2026 to August 2026

- Working on enhancing Trumid's Smart Voice feature that converts client conversations into trade tickets with AI.

Software Engineering Intern at Tradewell Technologies, US May 2025 to August 2025

- Designed and launched a production AI Agent using Anthropic's Claude Sonnet and Model Context Protocol (MCP) to answer real-time bond pricing queries, which resulted in a natural language insight tool used by corporate bond traders.
- Enhanced the bond search engine with multi-parameter queries by writing Python code, which improved retrieval accuracy and usability for over 300,000 corporate bonds.
- Built evaluations for the AI agent by working with domain experts to integrate corporate bond and credit market knowledge.

Software Team Member at Purdue Humanoid Robot Club, IN October 2024 to current

- Developed a visual odometry SLAM pipeline using ROS2 and C++ with vision and IMU sensor integrations to enable real-time localization and mapping for a humanoid robot.
- Built a MuJoCo simulation environment using ROS2 and C++ for testing and visualizing humanoid robot walking policies.

Undergraduate Researcher at Cook Medical, IN August 2024 to December 2024

- Analyzed large-scale industrial datasets using Python and Agile methodologies to establish and monitor KPIs for the healthcare data team.
- Created PowerBI visualizations by aggregating weekly data, which resulted in reports presented to company leadership.

Software Engineering Intern at Tradewell Technologies, US June 2024 to August 2024

- Developed a bond chatbot using the OpenAI Assistant API and function calling to search across 200,000+ data points stored in an SQLite database.
- Implemented chat history and query optimizations using Kotlin and Python, which decreased response time by 50% and enabled GUI integration.

Python & IoT Developer/Researcher at UC Berkeley, CA February 2023 to current

- Developed non-invasive IoT rat telemetry devices by programming ESP32 microcontrollers, which resulted in a working paper on the telemetry system.

- Programmed a C++ web server to control stepper motors across devices on the same WiFi network, enabling remote operation of the physical research model.
- Presented research findings at the 2024 Brazilian Aging Research & Technology Symposium.

Projects

Agentic Health Coach Project Member at Purdue University, IN

January 2026 to May 2026

- Applied Human-Computer Interaction (HCI) principles to develop an Agentic AI health and fitness coach and evaluate its effectiveness compared to traditional coaching methods.
- Built an iOS and WatchOS application using Swift and Google Firebase to deploy a Gemini-powered AI agent that provided real-time coaching to users.
- Authored a research paper comparing user preferences between non-agentic and agentic solutions, which resulted in findings on user engagement for future AI integrations.

Machine Learning Project Member at Purdue University, IN

August 2025 to December 2025

- Fine-tuned a ROBERTa transformer model using Python and systematic hyperparameter tuning to classify fake news articles, which resulted in a 20% performance increase over the baseline.
- Integrated the Qwen 3 LLM with RAG by writing Python scripts to improve overall article classification results.