Yixiao Sun

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EDUCATION

BS, Computer Science | Purdue University — Aug 2021 – Dec 2025
Minor, Applied Mathematics
3.68 GPA

- *Coursework:* Programming in C, Data Structures And Algorithms, Systems Programming, Problem Solving And Object-Oriented Programming, Foundations of Computer Science, Computer Networks, Information Systems, Python Programming, Discrete Mathematics, Real Analysis

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PROJECTS

Java Client-Server Application — Feb 2023 – May 2023

- Developed a Java-based client-server system for a simulated marketplace, handling user authentication, shopping cart management, and transactions.
- Utilized socket programming for communication between multiple clients and the server, with persistent data storage in a text file.
- Enabled concurrent client operations and tested functionality using IntelliJ and command-line tools.

Node.js Terminal Chatbot — April 2024 – June 2024

- Developed a terminal-based chatbot using Node.js that integrates with the OpenAI API for real-time conversational capabilities.
- Implemented API interaction to manage chat history, enabling context-aware responses from the GPT-3.5 model.
- Utilized environment variables for secure API key management and streamlined deployment with npm for dependency management and script execution.

Real-Time Sign Language Detector — June 2023 – Aug 2023

- Developed a real-time Sign Language Detection system using Python, OpenCV, and Mediapipe for hand gesture recognition.
- Trained a Random Forest Classifier on extracted hand landmark features to classify sign language alphabets with over 90% accuracy.
- Integrated the model into a live video feed for real-time detection and prediction of sign language gestures.

EXPERIENCE

PURDUE ASSOCIATION FOR COMPUTING MACHINERY CLUB — Oct 2022 – Present

- *Industry Exposure & Networking:* Participate in tech talks, hackathons, and events sponsored by leading companies, providing members with direct access to corporate recruiters and networking opportunities within the tech industry.
- *Collaborative Learning Environment*: Join Special Interest Groups (SIGs) to collaborate with peers on cutting-edge projects, attend weekly meetings, and contribute to pioneering solutions in areas like scalable cloud backends, robotics operating systems, and game development.

LANGUAGES: English(Native), Chinese(Fluent)

SKILLS & TOOLS: Data Science, Statistics, Solutions Architecture, Weka, Microsoft Office, Git, Firebase, Adobe Photoshop, Slack, Trello, Calendly, G-Suite, Salesforce, SAP ERP, AWS, GCP, Azure, Peoplesoft, Docker, Kubernetes, SAP HANA, Terraform, LetsEncrypt, Traefik, Jira, Flask, Spring framework, MySQL, PostgreSQL, Mongo-DB, Sketch, SUSE, RedHat, UI5, Angular, React, JavaScript, Python, C, Java, MIPS, HTML5, CSS, Jupyter Notebook, Google Colab, Scala, Hadoop, Sci-kit learn (random forest, Linear regression, logistic regression)