

ISABEL SIEH

917-607-7658 | isabelrs@stanford.edu | [linkedin.com/in/isabelsieh](https://www.linkedin.com/in/isabelsieh) | github.com/Isabel-S | isabelsieh.netlify.app

EDUCATION

Stanford University

Stanford, CA

B.S. and M.S. in Computer Science (AI concentration)

September 2021 – June 2026

Relevant Courses: NLP with Deep Learning, Robot Perception, Deep Learning for Computer Vision, Trust and Safety Engineering, Data Management and Systems, Design and Analysis of Algorithms, Web Applications, Operating Systems Principles, Intro to Computer Graphics, Intro to Earth Systems, Human-Centered Sustainability: Startups and Investment

2024-2025 Courses: AI for Legal Help, AI Agents and Simulations, Stanford Climate Ventures, Building AI-Enabled Robots

WORK EXPERIENCE

The New York Times | nytimes.com/by/isabel-sieh

New York, NY

Software Engineer, Interactive News Technology Team and AI Initiatives

June 2024 - Present

- Since September: part-time for newsroom engineering efforts including presidential election readiness and AI translation
- Rapidly built robust, fault-tolerant JSON data feeds of live EU and UK election results using Typescript, achieving 867k+ views
- Developed an AI-powered visual search prototype tool for Visual Investigations using FastAPI, Svelte, and a multimodal model
- Contributed full-stack development for Olympics results and interactive assets, garnering 1.6m+ views and homepage features

Intelligent Robotic Interaction at Scale Lab, led by Prof. Chelsea Finn

Stanford, CA

ML and Robotics Researcher | Presented in RSS 2024 Workshop

October 2023 – February 2024

- Compared simulation versus real-world as evaluation methods for training vision-based robotic manipulation policies
- Created 3D models and simulations, scripted CV tools, tested policies, participating in weekly ML and robotics reading group

Independent Project, Stanford Clayman Institute for Gender Research

Stanford, CA

Natural Language Processing (NLP) Researcher | Susan Heck Scholar

June 2023 – August 2023

- Computed multilingual sentence embeddings for unsupervised topic clustering analysis on 70k Facebook texts in Python
- Developed a web app in HTML and JavaScript featuring 10 NLP data visualizations: philippine-presstitutes.github.io

Stanford Human-Centered Artificial Intelligence

Stanford, CA

Lead Full Stack Developer | Researcher

February 2022 – June 2023

- Built full-stack web app teaching AI literacy including a multiplayer game with React, Google OAuth, D3.js, and Firebase
- Published 2 works in [Educational Advances in Artificial Intelligence 2024](#), [International Society of the Learning Sciences 2023](#)

Proof of Learn

New York, NY

Software Engineering and Product Intern

June 2022 – August 2022

- Coded the REST API with Typescript and implemented a MongoDB and PostgreSQL database for the game world
- Pitched product demo 14 times to 15k+ people and gained 1k+ users and lectured an online blockchain course for 5k+ students

Stanford Computer Science Department

Stanford, CA

Section Leader (Teaching Assistant) for CS106A/B

December 2021 – August 2023

- Taught, graded assignments and exams, held office hours for 500+ students on Python programming and C++ data abstractions

The Coding School

Manila, Philippines

Startup Founder

October 2017 – Present

- Created an educational platform connecting 3000+ students across 10+ countries with 100+ teachers through 40+ STEM courses

RELEVANT RESEARCH AND PROJECTS

SaveFace: Controlling Face in Image Diffusion Models | CS 231N Poster, PDF

June 2024

- ControlNet-based text-image diffusion model using image pre-processing to preserve facial features and mitigate social biases

Evaluating Real-World Robot Manipulation Policies in Simulation | RSS Workshop Website, PDF

June 2024

- Collaboration between Google DeepMind, Stanford, UCSD, and presented in RSS 2024 Workshop: Data Generation for Robotics

NatuRel: Advancing Relational Understanding in Vision-Language Models | CS 224N Poster, PDF

March 2024

- Created 100k image-text dataset and fine-tuned VLMs, achieving state-of-the-art visio-linguistic compositional reasoning

Campus Crimewatch | campus-crime-watch.github.io/

June 2023

- Geo-coded and ran geo-spatial analysis on campus crime data resulting in a web-app which included an interactive map

SKILLS AND AWARDS

Awards: Columbia-Stanford Brown Institute Grant Awardee for NLP Entity Extraction, Citadel Women's Datathon Invitee

Languages: Python, C/C++, Typescript, Javascript, Java, HTML/CSS **Libraries:** D3.js, React, OpenCV, HuggingFace, Plotly

Frameworks and Software: PyTorch, REST, Node.js, MongoDB, SQL, GoogleAPI, GCP, Git, Blender, Figma, Tailwind, Svelte