ISABEL SIEH

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EDUCATION

Stanford University   Stanford, CA
M.S. and B.S. in Computer Science (AI concentration)   *September 2021 – June 2026*
Relevant Courses: NLP with Deep Learning, Robot Perception, Self-Improving AI Agents, Deep Learning for Computer Vision, Data Management and Systems, Design and Analysis of Algorithms, Web Applications, OS Principles, Intro to Computer Graphics , Human-Centered Sustainability: Startups, Decision-Making Under Uncertainty, Causality and Data Science, Trust and Safety Engineering, Principled Entrepreneurial Decisions, Start-Up to Mature Company

WORK EXPERIENCE

Waymo   Mountain View, CA
Incoming Software Engineer, Visualization   *Incoming 2025 Internship*
- Spin off from Alphabet's X, the moonshot factory, empowering people to move safely and sustainably

The New York Times | nytimes.com/by/isabel-sieh   New York, NY
Software Engineer, Interactive News Technology Team and AI Initiatives   *June - December 2024*
- Since September: part-time on AI reporter tools and US 2024 Election results, forecast (Needle), Extremely Detailed Map
- Rapidly built robust, fault-tolerant JSON data feeds of live EU and UK election results using Typescript, acheiving 867k+ views
- Developed an AI visual search prototype 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

Stanford AI Lab | Intelligence through Robotic Interaction at Scale   Stanford, CA
ML and Robotics Researcher | Published in CoRL-24 with DeepMind and UCSD   *October 2023 – February 2024*
- Compared simulation versus real-world as evaluation methods for 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 | craft.stanford.edu   Stanford, CA
Lead Full Stack Developer and Researcher | Published in EAAI-24 and ISLS-23   *February 2022 – June 2023*
- Built full-stack web app teaching AI literacy including a multiplayer game with React, Google OAuth, D3.js, and Firebase
- Implemented in curriculum taught in classrooms and co-designed with teachers across U.S. Title I schools

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

SELECTED RESEARCH AND PROJECTS

Camp Kaleidoscope | Special Events Head   September 2024 - Present
- Leading the fundraising of $50,000 for 120 children with a parent cancer experience can go to camp free of cost for all families

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