Summary_

I'm a master's student in Computer Science at Stanford using artificial intelligence in human-centered applications. My outputs include published research, an impactful web application at Amazon, and a hackathon-winning smart glove. In my free time, I enjoy extending Emacs, experimenting in my digital laboratory, and playing with my cats. I am looking for machine learning engineer, research scientist, or data scientist roles.

Education

Stanford University Stanford, CA

M.S. IN COMPUTER SCIENCE (AI) GPA: 3.89/4.00

Jan. 2021 - Jun. 2022 (expected)

Relevant Coursework: Deep Generative Models, Computer Networking, Reinforcement Learning (planned)

Stanford, CA Stanford University

B.S. IN SYMBOLIC SYSTEMS (AI) GPA: 3.82/4.00

Sep. 2017 - Jun. 2021

· Relevant Coursework: Computer Vision, Natural Language Processing, Knowledge Graphs, Probabilistic Programming

Research Experience _____

Stanford HCI Group Stanford, CA

RESEARCH ASSISTANT Mar. 2021 - present

- Working on a human-Al co-creation system, whereby users can personalize the output of ML models via interactive feedback loop.
- Incorporating causal inference in models s.t. users can specify why an output is unsatisfactory, and the model learns to correct.

Stanford Vision Lab Stanford, CA

RESEARCH ASSISTANT

RESEARCH ASSISTANT

Jan. 2020 - Aug. 2021

Oct. 2018 - Jun. 2020

- Developed + trained multimodal ML models combining audio, video, and text to detect depression/anxiety from patient interviews.
- Used techniques such as data augmentation, balanced sampling, and focal loss to combat small dataset size / class imbalance.

Stanford Language and Cognition Lab

Stanford CA

Applied human face and pose estimation algorithms to examine longitudinal trends in infants' visual scenes.

Work accepted and was presented at Conference of the Cognitive Science Society 2020.

Work Experience _____

Fire TV, Amazon Gahanna, OH (virtual)

SOFTWARE DEVELOPMENT INTERN

Jun. 2020 - Sep. 2020

- Developed a web portal for onboarding 20+ TV partners (e.g. Hulu) using React/Node/Typescript. Deployed on AWS using EC2/S3/DynamoDB.
- · Worked closely with team to design an intuitive, robust user interface; set the foundation for a more expansive self-service portal.

Programming Abstractions (TA), Stanford Computer Science

Stanford, CA

SECTION LEADER

Jan. 2019 - present

- Selective TA position, taught weekly discussion section and office hours for 3+ quarters of CS 106B: Programming Abstractions.
- · Worked with sectionees on whiteboard and computers to create elegant, efficient solutions to data structures and recursion problems.

Projects

Interactive Timbre Exploration

 $link \rightarrow$

- · Using variational autoencoders (VAEs) to interactively vary the musical timbre (tone) of an note, e.g. from a piano to a cello.
- · Neural network written and trained in PyTorch on a GPU-enabled machine. Website built using Typescript / Next.js.

Smart Glove link →

- Raspberry Pi-powered smart glove to control IoT devices. Won hardware prize in Interhackt hackathon.
- Makes use of Spotify, FB Messenger, Philips Hue APIs in Python, soldering / GPIO pins to assemble glove.

Skills

Expert: Python, PyTorch, SciPy stack Proficient: TypeScript, React.js, Node.js, C/C++, Some experience: Tensorflow, Neo4j, Rust, WebPPL, Lisp, Bash