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## Summary\_

4th-year Symbolic Systems and Computer Science student at Stanford. Published research using computer vision in cognitive science, shipped impactful web tools at Amazon, and currently developing deep learning for mental healthcare. Enjoy building side projects that enable new modes of human-computer interaction. Lover of Emacs, digital gardening, and cats.

### Education

**Stanford University** Stanford, CA

Jan. 2021 - Jun. 2022 (expected) M.S. IN COMPUTER SCIENCE (AI)

GPA: 3 89/4 00

· Planned Coursework: Reinforcement Learning, Deep Generative Models, Graph Machine Learning

Stanford University Stanford, CA

Sep. 2017 - Jun. 2021 B.S. IN SYMBOLIC SYSTEMS (AI)

GPA: 3 81/4 00

Relevant Coursework: Computer Vision, Natural Language Processing, Probabilistic Programming

## Research Experience \_\_\_\_\_\_

#### **Partnership in AI-Assisted Care**

Stanford, CA

RESEARCH ASSISTANT

Jan. 2020 - present

- · Design AI tools for automated mental health assessment under Prof. Fei-Fei Li and Dr. Nirav Shah.
- · Developing models using speech, facial, and linguistic features to detect depression/anxiety from patient interviews.
- · Using unsupervised / semi-supervised pretraining to increase performance on small medical datasets.

#### **Language and Cognition Lab**

Stanford, CA

Jan. 2019 - present

 $link \rightarrow$ 

2018

RESEARCH ASSISTANT Oct. 2018 - Jun. 2020

- · Analyzing first-person infant headcam videos using computer vision algorithms under Prof. Michael Frank.
- · Used human face and pose estimation algorithms to examine longitudinal trends in infants' visual scenes.
- Work accepted as a talk, presented at Conference of the Cognitive Science Society 2020.

# Work Experience \_\_\_\_\_

Amazon Fire TV Gahanna, OH (virtual)

SOFTWARE DEVELOPMENT INTERN Jun. 2020 - Sep. 2020

- Developed a web portal with React.js and Typescript that now serves as a hub for Fire TV partner communications.
- · Worked closely with engineers and manager to design intuitive, user-friendly workflows for data entry and verification.

**CS 198 Teaching Program** Stanford, CA

• Taught weekly discussion section and office hours for 3+ quarters of CS 106B (programming abstractions.)

- · Worked with sectionees to create elegant, efficient solutions to data structures and recursion problems.

# Projects \_\_\_\_

SECTION LEADER

**Smart Glove**  $link \rightarrow$ 

RASPBERRY PI-POWERED SMART GLOVE TO CONTROL IOT DEVICES. WON AWARD IN INTERHACKT HACKATHON. 2020

**Org-Twitter** 

EMACS PACKAGE TO TWEET SNIPPETS AND THREADS DIRECTLY FROM YOUR ORG-MODE NOTES. 2020

Autonomous RC  $link \rightarrow$ 

SELF-DRIVING RC CAR THAT CAN NAVIGATE NOVEL MAZES OF PAPER.

### Skills

**Advanced** Python, PyTorch, TypeScript, React/NextJS, C/C++

Intermediate Neo4j, Lisp, Bash, Swift, Java

KETAN AGRAWAL · RÉSUMÉ JUNE 18, 2021