

Noah Trenaman

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Tools and Languages

Scientific Python: NumPy, Pandas, SciPy, Jupyter
Web: Django, React, AWS, PostgreSQL

Deep learning: Keras, TensorFlow, PyTorch, JAX
Other: GNU Octave, Swift, Flutter

Work Experience

Machine Learning Engineer, Intern

May 2019 - December 2019

Kinetic Vision

- Implemented various convolutional neural networks for computer vision systems
- Developed and documented a codebase to streamline data pipelines for machine learning projects using data serialization (Protocol Buffers) and parallel processing

Machine Learning Intern

May 2020 - Present

PerceptiLabs

- Develop templates and demos of deep learning systems using visual programming tool based on TensorFlow back-end

Education

BS, Computer Science

Expected Graduation: May 2023

University of Cincinnati (3.5 GPA)

- National Merit Scholar

Projects

[GlyphNet](#) Neural Networks Collaboratively Developing a Visual Language

January 2020

- This project was inspired by my curiosity about how neural networks could generate *human-interpretable* representations — in this case, they produced a kind of alien alphabet
- The code is open source and uses TensorFlow 2. See the link for example outputs

[Digit Glove](#) A Wearable Device as Digital Complement to Braille

October 2018

- Prototyped a wired glove that can communicate text through vibration patterns as an accessible, inexpensive alternative to digital Braille displays for the visually impaired
- Finalist for the Commonbond Social Impact Award

Extracurriculars

ACM and ACM-W

September 2018 - Present

- Delivered a technical talk on my experience with computer vision and neural networks ([slides](#))
- Mentor students in technology courses at Hughes High School. Courses include introductory Python and web development

Available for internships or research positions in Fall 2020 / Spring 2021