

Kayla Lee

978-987-6447 | kaylalee@umich.edu | [linkedin.com/in/kayla-lee1116](https://www.linkedin.com/in/kayla-lee1116) | Canton, MA

EDUCATION

The University of Michigan

BS Computer Science, Minor in Music | GPA: 3.86

Honors, Eta Kappa Nu

Relevant Coursework: Data Structures and Algorithms, Applied Computational Machine Learning, Discrete Math, Calculus II, Linear Algebra, Machine Learning, Computer Organization, Database Administration

Ann Arbor, MI

May 2020–Present

SKILLS

C++, Python, Javascript, Typescript, HTML, CSS, Julia, Git, TensorFlow, Keras, sklearn, React, Chart.js, Photoshop

PROFESSIONAL EXPERIENCE

MIT Lincoln Laboratory

Biomedical Image Processing and Machine Learning Intern

- Implemented revision tracking for scalable active learning pipeline prototype for large-scale brain mapping leveraging high performance computing
- Reduced JSON payloads by 90% by redesigning NeuroTrALE's data transmission and API requests

Remote

Feb 2022 – Present

Aite Novarica Group

Data Migration Intern

- Developed plan and executed migration of hundreds of research reports and thousands of users for client portal
- Test and confirmed unified website functionality and content

Remote

May 2021 – Aug 2021

Transitmatters Labs

Software Engineering Intern

- Calculated, analyzed, and created topline statistics for TM's Covid Recovery Dashboard to display discrepancies between pre-COVID and current ridership and service levels of the MBTA
- Developed code to be used by San Francisco Municipal Transportation Agency (SFMTA)

Remote

May 2021 – Aug 2021

Surestart

VAIL Spring 2021 AI/ML Trainee

- Learned and applied Machine Learning, NLP, Affective Computing, and ethical AI development
- Won 2nd place in VAIL Spring 2021 Makeathon by using machine learning to develop an auto-adjusting lightbulb that incorporates chromotherapy for those with Seasonal Affective Disorder

Remote

Feb 2021 – April 2021

PERSONAL PROJECTS

COVID Recovery Dashboard

Front end | Typescript, Python, HTML, CSS

- Calculated and created data visualization of topline statistics of pre-Covid and current ridership/service levels for the Massachusetts Bay Transportation Association (MBTA)
- Processed 2 years of ridership and service level data from MBTA

June-July 2021

JSON to TIFF Conversion

Script | Python

- Developed script to convert brain axon annotation data into tiff format to complete the iterative active learning pipeline
- Processed petabytes of brain data for MIT and University of Florida brain segmentation projects

Feb 2021

EXTRACURRICULARS

Eta Kappa Nu

International Honors Society of the IEEE, Active

Jan 2022 – Present

Harmonettes A Cappella

Music Director (*Mar 2022 – Present*)

Sept 2020 – Present

Autonomous Robotic Vehicle

Computer Vision Team Member

Jan 2022 – Present