Maya Nigrin

http://mayanigrin.com
118 Allenhurst Rd, Buffalo, NY, 14226 | mayigrin@mit.edu | 716-239-3759

EDUCATION:

Massachusetts Institute of Technology — Cambridge, MA
Candidate for B.S Computer Science and Minor in Mathematics — *Class of 2021*
GPA: 4.7/5.0
Relevant Coursework: Computer Systems Engineering, Design and Analysis of Algorithms, Software Engineering, Machine Learning, Ethics in Engineering - AI/CS, Computer Graphics, Computation Structures, Interconnected Embedded Systems

EXPERIENCE:

Klaviyo — Boston, MA
Software Engineering Intern, Content Team — *June 2020 - August 2020*
- Partnered with a full-time Klaviyo engineer to build font importing and storing infrastructure so that customers can use custom fonts in their Klaviyo-created content, thereby maintaining a cohesive brand throughout their website
- Used React, Typescript, and Redux to build a font management interface to incorporate user's custom fonts into their content

Quest for Intelligence - The Bridge — Cambridge, MA
Research Assistant and Software Developer for the Gaze Coding Project — *February 2020 - May 2020*
- Used video processing, AI, and ML to automate the labeling of babies' gaze direction in early cognition research videos
- Set up X11 forwarding from Windows PC to Debian VM, and from the same VM to a docker container in order to run OpenGaze
- Created a script to convert OpenGaze output into gaze label TSVs; all of the code is publicly available and fully documented

Microsoft — Cambridge, MA
Azure Machine Learning Intern, Responsible AI Team — *January 2020 - February 2020*
- Used MLflow to create an end-to-end system for ML/AI model creation & integrated an IBM differentially private log. reg. model
- Created a differentially private linear regression model compatible with scikit-learn using the covariance method
- Worked with Harvard and Microsoft researchers on an open-source differentially private stochastic gradient descent model

Klaviyo — Boston, MA
Software Engineering Intern, Integrations Team — *June 2019 - August 2019*
- Separated the logic and implementation for changing integration settings and resyncing historical data
- Restructured the code for uploading data from a CSV file, used asynchronous worker tasks and queues to cut down the upload time for 500,000 events from 12 hours to 15 minutes
- Coded instrumentation using Statsd and Python to measure the frequency and duration of different types of API calls

Quest for Intelligence - The Bridge — Cambridge, MA
Research Assistant and AI Software Developer for the K-12 Education Initiative — *February 2019 - December 2020*
- Trained a ProGAN on castle images from MIT's Places2 dataset
- Used Gandissect to analyze the nodes of the network and understand which node generates what
- Integrated the Gandissect results with frontend code that uses Scratch to let kids interact with a GAN in a fun, educational way

Arcadia Funds — Burlington, MA
Data Analytics and Visualization Intern — *January 2019 - February 2019*
- Created machine learning models and data visualizations to identify auto loan borrowers who are likely to default
- Built a program that scraped a web form to collect data on cars' value over time

Vivint Smart Home — Cambridge, MA
Software Development Intern — *June 2018 - August 2018*
- Prototyped new server infrastructure to lower cost and increase efficiency of pipeline from surveillance cameras to database
- Learned usage of Docker, Google Cloud Platform, Terraform, GStreamer, and FFmpeg, among others

Juni Learning — Boston, MA
Senior Instructor — *December 2017 - Present*
- Instruct students in Scratch, Java, Python, Web Dev, AP Computer Science A, and USACO Bronze programming classes
- Create tutorial videos that walk through how to create projects in Python, Scratch, and Java

ACTIVITIES AND LEADERSHIP:

MIT Muses - MIT's all-female-voice-part a cappella group — Cambridge, MA
Co- Music Director, Executive Board, Auditions Manager, Publicity Chair, Choreography Chair — *September 2017 - Present*

Undergraduate Practice Opportunities Program - MIT professional development program — Cambridge, MA
- Developed communication, leadership, the ability to work in teams, and other career skills — *October 2018 - Present*

SKILLS:

Languages: Python, Java, Typescript, Javascript, React, HTML/CSS, C++
Libraries & Other Tools: Keras, Tensorflow, and GCP