

# Maya Nigrin

<http://mayanigrin.com>

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## EDUCATION:

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### Massachusetts Institute of Technology

*Candidate for B.S Computer Science and Minor in Mathematics*

GPA: 4.7/5.0

Relevant Coursework: Design and Analysis of Algorithms, Software Engineering, Computer Graphics, Computation Structures, Introduction to EECS via Interconnected Embedded Systems, Mathematics for Computer Science, Machine Learning

Cambridge, MA

Class of 2021

## EXPERIENCE:

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### Klaviyo

*Software Development Intern*

Boston, MA  
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

*Research Assistant and AI Software Developer for the K-12 Education Initiative*

Cambridge, MA  
February 2019 - Present

- 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
- Helping integrate the results of Gandissect with front-end code that used Scratch to create a kid-friendly program that allows them to interact with the GAN

### Arcadia Funds

*Data Analytics and Visualization Intern*

Burlington, MA  
January 2019 - February 2019

- Built a variety of machine learning models to identify potential auto loan borrowers who are likely to default
- Created a program that scraped a web form to collect data on cars' value over time
- Coded in Python and used a variety of data visualization and machine learning tools (Keras, Tensorflow, Sklearn, Pyplot, etc)

### Vivint Smart Home

*Software Development Intern*

Cambridge, MA  
June 2018 - August 2018

- Investigated the data pipeline from surveillance cameras to database
- Researched and prototyped new server infrastructure to increase efficiency and lower cost
- Learned usage of Docker, Google Cloud Platform, Terraform, GStreamer, and FFmpeg, among others
- Presented summary of my research and explained my prototype

### Juni Learning

*Senior Instructor*

Boston, MA  
December 2017 - Present

- Teach computer science video lessons for children ages 9-16
- Instruct students in Scratch, Java, Python, AP Computer Science A, and USACO Bronze programming classes

## ACTIVITIES AND LEADERSHIP:

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### Undergraduate Practice Opportunities Program (MIT)

- Develop communication, leadership, the ability to work in teams, and other career skills
- Participate in a yearlong professional development program that prepares MIT sophomores for success

Cambridge, MA

October 2018 - Present

### Code for Good (MIT)

*Executive Committee, Consulting Program Chair, Corporate Chair*

- Connect groups of MIT students with local nonprofits to make a direct, positive impact with computer science
- Screen and select nonprofits and students for the program

Cambridge, MA

September 2017 - Present

### MIT Muses

*Auditions Manager, Publicity Chair, Choreography Chair*

- MIT's only all-female a cappella group
- Organized, scheduled, and led 30+ hours of auditions

Cambridge, MA

September 2017 - Present

## SKILLS:

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Python, Java, HTML & CSS, JavaScript, Microsoft Excel, Microsoft Powerpoint, Keras, and Tensorflow