# Maya Nigrin

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### **EDUCATION:**

## **Massachusetts Institute of Technology**

Cambridge, MA

Candidate for B.S Computer Science and Minor in Mathematics

Class of 2021

GPA: 4.5/5.0

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

#### **EXPERIENCE:**

**Arcadia Funds** Burlington, MA

Intern

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)

## Quest for Intelligence - The Bridge

Cambridge, MA

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

February 2019 - June 2019

- 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
- Helped 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

**Vivint Smart Home** Cambridge, MA Intern 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** Boston, MA

Instructor

December 2017 - Present

- Teach computer science video lessons for children ages 9-16
- · Instruct students in Scratch, Java, and introductory, intermediate, and advanced Python programming classes

## ACTIVITIES AND LEADERSHIP:

### **Undergraduate Practice Opportunities Program (MIT)**

Cambridge, MA

- Develop communication, leadership, the ability to work in teams, and other career skills
- October 2018 Present
- Participate in a yearlong professional development program that prepares MIT sophomores for success

Executive Committee, Consulting Program Chair, Corporate Chair

Cambridge, MA September 2017 - Present

- 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

**MIT Muses** Cambridge, MA

Publicity Chair, Choreography Chair

Code for Good (MIT)

September 2017 - Present

MIT's only all-female a cappella group

## Publicize our concerts and other events

#### AWARDS:

Cum Laude Society, National Merit Scholarship Finalist, Strachan Computer Science Award, University at Buffalo's Gifted Math Founders Award

## SKILLS:

Python, Java, HTML, JavaScript, Microsoft Excel, Microsoft Powerpoint