# Matthew Todd

22 Dogwood Road, Stony Brook, NY 11790 | Phone 631-339-3104 |Email: todd.m@northeastern.edu
github.com/matttodd | matttodd.tk | linkedin.com/in/matttodd6

## Education

Class of 2021 — **Northeastern University** | Boston, MA — GPA: 3.5/4.0
**BS** in Computer Science and Physics **Minors** in Film Production and Math
**Coursework** Software Development, Object Oriented Design, Algorithms, Advanced Physics Lab, Differential Equations and Linear Algebra, Screenwriting
**Involvement** Elite Heat Vice President, Dean's List

## Skills

**Programming:** Python, Dart, JavaScript, Java, HTML, CSS, SQL, Bash
**Technologies:** Linux, Git, Flutter, Flask, JQuery, AJAX, Premier, After Effects, Photoshop
**Concepts:** Web Development, Machine Learning, Material Design

## Work Experience

**Software Developer Coop** — January 2020 – August 2020
*MORSE Corp* — Cambridge, MA

- Developed metrics package for evaluating performance of computer vision algorithms.
- Designed performant pipelines that produce metrics on petabytes of inference data.
- Collaborated with companies and university labs to design and implement metrics that accurately portray model performance in detection, tracking, and classification.

**Software Developer Coop** — January 2019 - December 2019
*Cantella & Co., Inc.* — Malden, MA

- Developed a diverse, full-stack web application on a 2-person team for document signing, distribution, and file sharing.
- Pushed multi year project into live beta and iterated with users to improve application.
- Led design initiatives across multiple company-wide applications.

**Center for Nano-Wear Research Intern** — June 2018 - August 2018
*Yonsei University* — Seoul, South Korea

- Modelled and printed parts for testing equipment at the largest tribology lab in Korea.
- Presented underlying physics concepts to the entire lab during weekly meetings.

## Achievements & Projects

**Counter Point** — September 2019
*HackMIT 2019 Best use of Google Cloud API* — Cambridge, MA
*github.com/arytonhoi/hackmit2019*

- Tackled the problem of media bias using Google Cloud NLP to take an article's url and return the user a spectrum of articles on the same topic varying in sentiment analysis.
- Utilized Beautiful Soup web scraping and Google Search API to find related articles.

**Kpop Machine Learning** — March 2018
*NUWireless Hackathon - Coolest Algorithm* — Boston, MA
*github.com/matttodd/Kpop-Hackathon*

- Built a model with TensorFlow to return the artist who wrote a Korean song given the lyrics. On a small training set of < 100 songs, the program yielded > 70% accuracy.

## Interests

Obstacle Course Racing, Bouldering, Esports, Interactive Media, Storytelling, Robotics