Matthew Todd

Availability: June 2020 - August 2020

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Education

Class of 2022   **Northeastern University** | Boston, MA   GPA: 3.52/4.0
BS in Computer Science and Physics
Minors in Film Production and Math
Coursework: Software Development, Object Oriented Design, Algorithms, Logic
and Computation, Modern Physics, Differential Equations and Linear Algebra
Involvement: NUHacks, Elite Heat (Secretary)

Skills

Programming: Python, JavaScript, Java, HTML, CSS, PHP, Racket, Bash, SQL
Technologies: Linux, Git, JQuery, AJAX, Jinja, Flask, Adobe Photoshop, Adobe Premiere
Concepts: Web Development, Machine Learning (TensorFlow), CISCO Networking

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Experience

Software Developer Co op   January 2019 - August 2019
Cantella & Co., Inc.   Malden, MA
- Developed a diverse, full-stack web application on a 2-person team for document signing and distribution as well as file sharing.
- Maintained company website and SQL databases.
- Led design initiatives across multiple company applications.

World Robot Summit and RoboCup Researcher   September 2018 - November 2018
Robotics and Intelligent Vehicles Research Laboratory   Boston, MA
- Enabled Deep Learning and Natural Language Processing.
- Overhauled hotword detection utilizing a ROS environment in Ubuntu.
- Streamlined speech processing using GSpeech within python scripts.

Center for Nano-Wear Research Intern   June 2018 - August 2018
Yonsei University   Seoul, South Korea
- Collaborated with a team of two other interns to CAD (SolidWorks) and assemble parts to augment tribotesters to perform two new methods of testing wear.
- Spearheaded through pretesting a micro triboelectric generator project.

Informational Technology Intern   June 2017 – September 2017
Three Village Central School District   Stony Brook, NY
- Resolved network issues throughout a 9 building school district.
- Maintained and updated network infrastructure alongside full-time IT technicians.

Achievements

Northeastern University   March 2018
NUWireless Hackathon - Coolest Algorithm   Boston, MA
github.com/matttodd/Kpop-Hackathon
- Project titled "Kpop Machine Learning" would take in lyrics to a Korean song and return the artist who wrote the song. On a small training set of < 100 songs, the program yielded > 70% accuracy.

Interests

Machine Learning, Virtual Reality, Robotics, Obstacle Course Racing, Filmmaking, Storytelling, Esports