

# PATRICK YOON

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Available: January 2021 - June 2021

<https://yoonpatrick3.github.io/>

## EDUCATION

**Northeastern University Khoury College of Computer Sciences**

Boston, MA

Candidate for a Bachelor of Science in Computer Science, 2023

September 2019 - Present

**GPA: 3.884.0**

Relevant Courses: Artificial Intelligence, Computer Systems, Object-Oriented Design, Algorithms and Data, Foundations of Data Science, Mathematics of Data Models

## SKILLS

Programming Languages: Python, Java, HTML/CSS/JavaScript, C, C++, MIPS Assembly

Libraries/Frameworks: Heroku, TensorFlow, Firebase, Flask, OpenPose

Languages: Korean

## PROJECTS

**Predicting Stock Prices - Research Paper**

December 2020

[https://github.com/yoonpatrick3/Predicting-Stocks/blob/master/paper/AI\\_Paper.pdf](https://github.com/yoonpatrick3/Predicting-Stocks/blob/master/paper/AI_Paper.pdf)

- Researched and tested how Long Short-Term Memory, Decision Tree, and Hidden Markov Model predict stock market prices
- Compiled strong results using a smaller data sample of stock prices along with news sentiment.

**Text Summarizer - IvyHacks**

October 2020

<https://github.com/yoonpatrick3/summarizer>

- Collaborated with members virtually to create a web app that summarizes YouTube videos and text blocks
- Designed two types of text summarizers, one based off of machine learning and the other based off a text-rank algorithm
- Created the web app on React and Javascript, and connected backend using Python Flask and Heroku

**K-Pop Neural Network**

May 2020

<https://link.medium.com/Tnf27Z93F9>

- Constructed a neural network in Python using TensorFlow to classify various Korean music based on audio features provided by the Spotify API

**K-Pop Web API**

March 2020

<http://kpop-api.herokuapp.com/instructions>

- Collected various data on thousands of Korean music artists such as their stage name, age, and country of origin
- Developed a web API using Python and the Flask framework for users to call GET requests to receive data

## WORK EXPERIENCE

**Northeastern University D'Amore-McKim School of Business**

Remote

*Research Assistant*

May 2020 - Present

- Collaborate alongside a professor's research about directors' and executives' influence and strategy
- Read thousands of annual reports from pharmaceutical and biotech companies
- Report and analyze various positions mentioned in the shareholder's letter

**Northeastern University Khoury College of Computer Sciences**

Boston, MA

*Algorithms and Data Teaching Assistant*

September 2020 - Present

*Discrete Structures Teaching Assistant*

April 2020 - June 2020

- Grade weekly homework and provide feedback to students
- Hold office hours to answer students' questions
- Teach students topics in math and theory often used in Computer Science

**Legoland Discovery Center**

Chicago, IL

*Front Desk Associate*

May 2019 - August 2019

- Established organization skills by taking calls and creating schedules for customers
- Managed cash and card transactions on a daily basis
- Accommodated families everyday to enhance their experience at Legoland

## INTERESTS

Northeastern Korean American Student Association Treasurer, League of Legends, K-pop, Chess