

# GunGyeom James Kim

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Available: May 2023 - Jan 2023 | <https://github.com/rodroadl>

## EDUCATION

<b>Northeastern University - Roux Institute</b> , Portland, ME	Aug 2021 - Present
<i>MS in Computer Science Candidate</i>	GPA: 4.0 / 4.0
<b>SangMyung University</b> , Seoul, South Korea	March 2013 - April 2020
<i>BS in Mathematics Education</i>	GPA: 3.53 / 4.5
<b>SangMyung University</b> , Seoul, South Korea	March 2013 - April 2020
<i>BK in Sports Health Management</i>	GPA: 3.53 / 4.5

## TECHNICAL KNOWLEDGE

**Languages:** C++ , C , Java , Python  
**Tools & Frameworks:** Git , Scikit-learn , tex , openCV  
**Database:** mySQL

## PROJECTS

<b>Segmentation of invasive plant using CNN</b>	Jan 2022 - Apr 2023
<i>Northeastern University - Roux institute</i>	
<ul style="list-style-type: none"><li>◦ Fintuned U-Net, convolutional neural network, to create a segmentation of invasive plant in Cape Elizabeth, Maine</li><li>◦ Created the pipeline to load and preprocess the data</li><li>◦ Analyzed loss functions and performance of the network</li></ul>	
<b>Dashboard of Bioscience Ecosystem in Maine</b>	Oct 2022 - Dec 2022
<i>Northeastern University - Roux institute</i>	
<ul style="list-style-type: none"><li>◦ Created Dashboard of Bioscienc Ecosystem in Maine using Observable (javascript based tool) and Gitpage</li><li>◦ Built geographical map of maine via Maplibre API and several graph serving different purposes</li><li>◦ Designed Database in mySQL scheme and data structure in backend</li></ul>	
<b>Relational Database of Crossfit</b>	Oct 2022 - Dec 2022
<i>Northeastern University - Roux institute</i>	
<ul style="list-style-type: none"><li>◦ Generated Relational Database of Crossfit using mySQL</li><li>◦ Populated four tables, WOD/Movement/Motion/Muscle following third Normal Form</li></ul>	
<b>API for NLP and EDA on Education ACTION Forum of Maine Conversation Data Set</b>	June 2022 - Aug 2022
<i>Northeastern University - Roux institute</i>	
<ul style="list-style-type: none"><li>◦ Performed NLP and EDA (tuning stopwords, lemmatizing, term frequency, inverse document frequecnyn) on Education ACTION Forum of Maine Conversation Data set and visualized result using WordCloud in python</li><li>◦ Utilized real-time data with LVN API</li><li>◦ Constructed intuitive API and documented well for successor</li></ul>	
<b>KNN algorithm</b>	June 2022 - Aug 2022
<i>Northeastern University - Roux institute</i>	
<ul style="list-style-type: none"><li>◦ Implemented K-Nearest-Neighbor Algorithm from scratch and visualized with Animation in python</li><li>◦ Assembled various weight function for algorithm, uniform, distance, squared distance and rank</li><li>◦ Benchmarked performace with KNN function in Sci-kit</li></ul>	

## WORK EXPERIENCE

<b>Attached Girl's Highschool to College of Education, SangMyung University</b>	Seoul, South Korea
<i>Math Teacher - Trainee</i>	April 2019 - May 2019
<ul style="list-style-type: none"><li>◦ Taught Math 1 to 10th grader and discussed my and others lecture</li></ul>	
<b>Hansol Academy</b>	Seoul, South Korea
<i>Math Instructor</i>	May 2018 - April 2019
<ul style="list-style-type: none"><li>◦ Taught from 7th to 10th grader</li></ul>	

## HONORS AND AWARDS

Presenter of Khoury 40th Anniversary in Roux(2023), SM-IN Core Competency Accreditation(2020), Excellence Award in 11th Pre-Tehacer Teaching Competency Contest(2018)