Hyunsu Park

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EDUCATION

Georgia Institute of Technology 2015 Aug. - Present
- Master of Science in Computer Science (Present)
- Bachelor of Science in Computer Science
- Bachelor of Science in Mathematics

RESEARCH/PROJECT EXPERIENCE

Nonnegative Matrix Factorization Project Apr. 2019 - June 2019
- Conducted a research project on unsupervised learning
- Created a python program that applies various nonnegative matrix factorization (NMF) to a dataset for clustering
- Implemented 3 different factorization algorithms from scratch
- Tested performances of different NMF algorithms using the program

Extracurricular Machine Learning Projects Jan. 2019 - June 2019
- Conducted extracurricular projects for self-improvement on coding proficiency in machine learning
- Managed about 20 projects to completion, including plagiarism detector, sentimental analysis, and customer segments

Curvature Constrained Path Planning Research Oct. 2017 - May 2018
- Conducted a research project with professor Sung Ha Kang at Georgia Tech, School of Mathematics
- Planned a path with complete coverage of a given region with a mobile sensor through limited sensing ability and constrained curvature
- Used geometric analysis and cutting-edge path planning algorithms for the project
- Created Python and Matlab Programs to examine the minimum length of a curvature-constrained path

WORK EXPERIENCE

Teaching Assistant for College of Computing, Georgia Tech May 2019 - Present
- Accepted offer to continue the teaching assistant job in Fall of 2019
- Worked as a teaching assistant for CS 6515 Graduate Algorithms, taught by Prof. Brito in Summer of 2019
- Collaborated with 7 other teaching assistants to assist and evaluate 280 students

Teaching Assistant for School of Mathematics, Georgia Tech Aug. 2016 - May 2017
- Worked as a teaching assistant for MATH 3012 Applied Combinatorics, taught by Prof. Ernie Croot in fall of 2016
- Worked as a teaching assistant for MATH 3012 Applied Combinatorics, taught by Prof. Heather Smith in spring of 2017

SKILLSET

Programming Languages
- Python, iPython, Matlab, C, C++, Java, JavaScript, Objective-C, Swift, Assembly Language, HTML, CSS

Skills
- Natural Language Processing, Computer Vision, Machine Learning (Tensorflow, Keras, AWS SageMaker, Pytorch, Scikit-learn, Pandas, Numpy), Web Development (JavaScript, JQuery, HTML, CSS), Mathematics and Statistics

AWARDS & COMPETITION

Kaggle Competitions
- Achieved top 8% in Titanic: Machine Learning from Disaster by using various machine learning techniques including data cleaning, feature engineering, and stacking a few machine learning models

Putnam Exam
- Achieved top 20% (Dec. 2017) among highly qualified university students

Math League State Competition
- Won 1st place in 9th grade (Apr. 2012), 2nd place in 10th grade (Nov. 2012), 2nd place in 11th grade (Nov. 2013)