Zhenye Na

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EDUCATION

University of Illinois Urbana-Champaign, IL
Master of Science, Advanced Analytics, May 2019 GPA: 3.9/4.0
Concentration in Computational Science & Engineering
Related Coursework:
Data Structures, Algorithms, Machine Learning, Database Systems, Computer Vision, Deep Learning.

Dalian University of Technology (DUT) Dalian, China
Bachelor of Engineer, Harbor, Waterway and Coastal Engineering, July 2017 GPA: 3.67/4.0

TECHNICAL SKILLS

Languages: Python, MATLAB/Octave, Java, R, C/C++, SQL, LaTeX, Julia.
Web Development: HTML, CSS, PHP, JavaScript.
Applications: Git, SVN, VirtualBox, InteliJ IDEA, Xcode.

WORKING EXPERIENCE

Engineering Intern, Dalian Highway Construction Group 09/2016 - 11/2016
• Analyzed road maintenance data with VBA and realized data visualization in EXCEL.
• The final plan I participated in drawing successfully saved cost of road maintenance by 20%.

PROJECTS

Mining Rig Assembly 04/2018
Mining Rig Assembly is a web application that allows users to browse, store rig setups and estimate the performance of setups in an integrated website.
• Implemented with HTML, CSS, PHP and JavaScript in Cpanel environment.
• Designed database in MariaDB engine using data crawled from Amazon API.
• Added features like product information visualization tools, price notification and product payback period computation.

Music Generation using GAN and RBM 04/2018
• Preprocessed classical music in MIDI files and represented in matrix format for later use.
• Using GAN with LSTM units as generative model for creating new music.
• Improved music generation result using RBM model with Gibbs Sampling.

Pokemon GAN 03/2018
• Implemented DCGAN for generating new Pokemons in Tensorflow and Pytorch separately.
• Selected Wasserstein distance as the loss function and augmented dataset for more reconstruction options.

Nonlinear Component Analysis as a Kernel Eigenvalue Problem 11/2017
• Outlined and implemented algorithm/Pseudo-code of Kernel function.
• Implemented USPS Handwriting Recognition via SVM given by KPCA and Simple PCA separately.

LEADERSHIP

Director, DUT International Communication Association 10/2015-8/2017
Vice President, Student Union, Faculty of Infrastructure Engineering, DUT 9/2013-6/2015