# Zhenye Na

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**Objective:** Machine Learning & Data Scientist Intern

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| **EDUCATION** | **University of Illinois** — Urbana-Champaign, IL |

**EDUCATION**

**University of Illinois**                                                                 Urbana-Champaign, IL

*Master of Science*, Advanced Analytics, May 2019                                    GPA: 4.0/4.0

Concentration in Computational Science & Engineering

*Related Coursework:*

Data Structures, Algorithms, Operating Systems, 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, Java, C/C++, R, SQL, LaTeX, Julia.

**Web Development**: HTML, CSS, PHP, JavaScript, Django.

**Applications**: Git, SVN, VirtualBox, InteliJ IDEA, Xcode.

**Operating Systems**: Linux, Mac OSX, Windows.

**WORKING EXPERIENCE**

**Data Analyst 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%.

**SELECTED 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 product information visualization, Email price notification and product payback period computation etc..

**Music Generation using GAN and RBM**                                                04/2018

- Preprocessed classical music in MIDI files in Python.
- 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.
- Deployed this project on Google Cloud and BlueWater for training and testing.

**Neural Network for Estimating Shortest Path Problem**                            11/2017

- Selected DNN and GCN as the model and implemented using Tensorflow.
- Concluded an 84% accuracy of prediction in Shortest Path problem.

**CERTIFICATES**

Amazon Web Services Machine Learning Essential Training on Lynda.            07/2018

Neural Networks and Deep Learning by **deeplearning.ai** on Coursera.            06/2018