ZHENYE NA

Urbana, IL 61801 ◇ +1 475 300 8646 ◇ Email: zna2@illinois.edu ◇ Github: zhenye-na ◇ LinkedIn: zhenyena

EDUCATION

University of Illinois at Urbana-Champaign May 2019
Master of Science, Industrial Engineering in Advanced Analytics, GPA: 3.91/4.0
Concentration in Computational Science & Engineering

Dalian University of Technology July 2017
Bachelor of Engineering, Harbor, Waterway and Coastal Engineering, GPA: 3.67/4.0

SELECTED PROJECTS

Full Stack Web Application: mini Quora Jul. 2018 - Aug. 2018
https://qac.herokuapp.com/

- Developed a Q&A Community Web Application using AngularJS for front-end, Laravel and MySQL for back-end
- Designed database schema and maintained database in MySQL using Laravel Migration mechanism
- Integrated features such as upvote/downvote, user following and questions suggestion into the application

MAMP based Online Store: Mining Rig Assembly Mar. 2018 - May 2018
http://rigassembly.web.engr.illinois.edu/

- Conceptualized an MAMP based eCommerce application for conveniently browsing, storing rig setups
- Implemented using Bootstrap for front-end, MySQL for back-end, FushionCharts for data visualization
- Designed and maintained database in MariaDB by 3rd-party API integrating Amazon and Newegg
- Introduced additional features such as performance estimate, product information visualization, price notification and rigs payback period computation

Shortest Path Prediction with GCN Nov. 2017 - Dec. 2017
Team Leader

- Innovated Graph Convolution Network and Deep Neural Network separately for Shortest Path Prediction
- Created Data Visualization of Dataset such as Similarity Matrix, Heat Map and predicted Shortest Path visualization
- Preprocessed Airlines Delay dataset to Partition Graph and implemented models in Tensorflow
- Resulted in 75% prediction accuracy in GCN model v.s. 34% accuracy in DNN model

WORKING EXPERIENCE

Data Analyst Intern Sept. 2016 - Nov. 2016
Dalian Highway Construction Group *Dalian, China*

- Evaluated highway maintenance cost based on factors like traffic weight, bridge/tunnel ratio and so forth
- Adapted Linear and Nonlinear Regression model in SPSS and the residual between predicted cost and ground-truth is within 10%
- Created data visualization in Excel for Cost Manager by using VBA
- Optimized road maintenance cost by 20% based on the appraisal factor model

TECHNICAL SKILLS

Languages	Python, Java, C/C++, MATLAB, SQL, Shell scripting, JavaScript, Julia
Frameworks	Tensorflow, Pytorch, Express.js, Node.js, REST
Tools	MySQL, MongoDB, MariaDB, Hadoop, Spark