ZHENYE NA

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Objective: Actively seeking Software Development Engineer opportunity since 2018 Fall

EDUCATION

Master of Science in Advanced Analytics Aug. 2017 - May. 2019
Concentration in Computational Science & Engineering
University of Illinois at Urbana-Champaign, GPA: 3.91/4.0

Bachelor of Engineering in Harbor, Waterway and Coastal Engineering Sept. 2013 - Jul. 2017
Dalian University of Technology, GPA: 3.67/4.0

SELECTED PROJECTS

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

- Designed 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
- Introduced features like upvote/downvote, following users and question recommendation in the application

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

- Developed an MAMP based eCommerce application for browsing, storing rig setups and estimating performance
- 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 like product information visualization, price notification and rigs payback period computation

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

- Designed Graph Convolution Network model and Deep Neural Network separately for Shortest Path prediction
- Preprocessed Airlines Delay Dataset to Partition Graph and implemented models in Tensorflow for comparison
- Created Data Visualization of Dataset like Similarity Matrix, Heat Map and predicted Shortest Path
- Concluded a 75% accuracy of prediction from Graph Convolution Network which is much better than 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 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, Hadoop, Spark