

LIZHONGYANG (LIZZY) ZHOU

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EXPERIENCE

Dec.2018 - present

Building Information Modeling Engineer | BIM Center | Royal BAM Group

Information modeling for project BORG Groningen, housing reinforcement

- Performing correlation and predictive modeling on Seismic data to determine the governing features for structural failure using machine learning algorithms.
- Applying Python to automate data exchange process, including data entries and reconciliations.
- Advising senior managers and engineers on the potential risks of a project.

Digitizing the realization process of De Zamlhaven, Rotterdam

- Developed BIM integrated model to incorporate multidisciplinary information for knowledge sharing and interface management.
- Preparing digital drawings and building model for onsite construction.

Jan.2018 - Oct.2018

Graduate Intern | Master Thesis | TUDelft & Witteveen+Bos

A Machine Learning Approach for Road Pavement Cost Prediction

- Gathered and preprocessed raw cost data into workable data set. Fit the data to multiple machine learning cost prediction models using Matlab.
- Explored significance levels between associated cost drivers and target cost.
- Evaluated the potential of applying machine learning approach in construction industry in terms of prediction accuracy and knowledge representation.
- Advised on cost database management optimization also expert participation.

EDUCATION

Sep. 2016 - Oct. 2018

Delft University of Technology | The Netherlands

MSc in Construction Management & Engineering

Sep. 2012 - Jul. 2016

Chongqing University | China

BSc in Engineering Management & Real Estate

Jul. 2015 - Sep. 2015

National Taiwan University | Taiwan

Summer program in Computer-Aided Engineering

WORKSHOP

Risk and Reliability Analysis to a Water Navigation Lock

- Performed Failure Mode, Effects & Criticality Analysis (FMECA) to prioritize key lock components which lead to system failure.
- Conducted Fault Tree Analysis (FTA) to quantify the root-cause events and failure probabilities.
- Presented the analysis result and recommendation to Rijkswaterstaat.

Dutch Real Estate Market Valuation

- Estimated the profitability of commercial properties by conducting income capitalization approach and market approach.

ONLINE COURSE

Applied Plotting, Charting & Data Representation in Python,

by University of Michigan on Coursera

Applied Machine Learning in Python, by University of Michigan on Coursera

Managing Big Data with MySQL, by Duke University on Coursera

Application of AI, InsurTech, and Real Estate Technology,

by University of Pennsylvania on Coursera

SKILLS

Python, MySQL, \LaTeX , Git, MS Office, Photoshop

Data Analysis, Risk Assessment, Lean & Agile Methodology, Project Management

Chinese (native), English (professional proficiency), Dutch (B1)

FRM program - Passed FRM Exam Part I (NOV. 2019)
