LIZHONGYANG (LIZZY) ZHOU

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EXPERIENCE

Dec.2018 - present   **Building Information Modelling Engineer** | **Royal BAM Group**
Information modelling for project BORG Groningen, housing reinforcement
● Performing correlation and predictive modelling on Seismic data to determine the governing features to structural failure using machine learning algorithms.
● Automating data exchange process using Python, including data entries exports and reconciliations.
● Advising senior managers and engineers on the potential structural risks.

Digitizing the realization process of De Zamlhaven, Rotterdam
● Developing BIM integrated model to incorporate multidisciplinary information for knowledge sharing and interface management.
● Preparing digital drawings and building model for onsite realization.

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.

Jul. 2015 - Aug. 2015   **Project Management Intern** | **Poly Real Estate Co., Ltd., China**
● Assisted in initializing change management plan, evaluating and prioritizing change requests from contractors.
● Performed financial reporting on real estate projects for budget control, and maintained budgeting system to support internal & external analysis.

EDUCATION

Sep. 2016 - Oct. 2018	**Delft University of Technology** | **The Netherlands**
	M.Sc in Construction Management & Engineering
Sep. 2012 - Jul. 2016	**Chongqing University** | **China**
	B.Sc in Engineering Management & Real Estate
Jul. 2015 - Sep. 2015	**National Taiwan University** | **Taiwan**
	Summer program in Computer-Aided Engineering

LEADERSHIP

Oct. 2012 - Jul. 2015 **Enactus Project Leader and Advisor**

• Orchestrated the project plan with a goal of providing opportunities for college students to share their skills.

• Spearheaded a team of 17 students to conduct entrepreneurial endeavors from inception to completion, including demand survey, online platform development and offline transaction coordination.

• Selected to represent over 40 team members to showcase the project and the impact the Enactus team had on the university community. Awarded First Prize in the "Enactus National Competition".

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)