LIZHONGYANG ZHOU

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EXPERIENCE

Information Modelling Engineer | BIM Center | Royal BAM Group

Dec. 2018 - Present

Information modelling for project BORG Groningen, housing reinforcement in earthquake zone

- · Performed correlation analysis and predictive modelling of Seismic data to determine the most governing variables for housing structural failure using Machine Learning algorithms (Random Forest and Neural Network).
- · Applied Python to automate the process of extracting geometry data from the finalized parametric model in Revit. The program accelerates the engineering modelling progress from 3 4 days to 1 day.

Digitizing the realization process of De Zamlhaven, Rotterdam

- · Wrote scripts (Dynamo/Python) to automate Revit modelling tasks, and to streamline data management workflow.
- · Developed BIM integrated model incorporates multidisciplines for knowledge sharing and interface management.

Graduate Intern | Master Thesis | TUDelft & Witteveen+Bos

Jan. 2018 - Oct. 2018

A Machine Learning Approach for Cost Estimation in the Project Initialization Phase

- · Developed a cost prediction model (Neural Network) in Matlab based on the historical road pavement cost data.
- · Explored the significance levels and patterns between associated drivers and target cost through statistical analysis.
- · Evaluated the performance of machine learning models in terms of prediction accuracy and knowledge representation. Advised on the cost database management optimization also expert participation.

Intern | Project Management Department | Poly Real Estate Co., Ltd., China Jul. 2015 - Aug. 2015

- · Assisted in initializing change management plan, evaluating and prioritizing change requests from contractors.
- · Performed financial estimates for over $5{,}000~m^2$ commercial real estate projects for budget control. Maintained budgeting system to support data entries and reconciliations.

EDUCATION

Delft University of Technology | Delft, Netherlands

Sep. 2016 - Oct. 2018

MSc in Construction Management & Engineering

Chongqing University | Chongqing, China

Sep. 2012 - Jul. 2016

BSc in Engineering Management & Real Estate

National Taiwan University | Taiwan, China

Feb. 2015 - Jun. 2015

Exchange in Civil Engineering, Computer-Aided Engineering Department

PROJECT WORKSHOPS

- · 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.
- · Dutch Real Estate Valuation Estimating the profitability of commercial and residential properties in consideration of main factors by conducting income capitalization approach and market approach.

ONLINE TRAINING

- · 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

SKILLS

Software Python, SQL, LATEX, Photoshop, AutodeskRevit, MS Office

Knowledge Data Analysis, Digital Transformation, Risk Management, Asset Management

Languages Chinese (native), English (professional proficiency), Dutch (A2)

Certificate FRM Program - Passed FRM Exam Part I (Nov. 2019)