

Muchen Zhou

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EDUCATION

CARNEGIE MELLON
UNIVERSITY
PITTSBURGH, PA
SEPT 2013 - MAY 2017
-B.Sc in Mathematical
Science and Statistics
-Minor in Machine
Learning

SKILLS

Programming Languages:
•Python, C, Java
Software and Packages:
•R, NumPy, Hadoop,
Excel, MySQL, MATLAB
Systems:
•Unix, Git, AWS
Editing Tools:
•LaTeX, InDesign, Word
Languages:
•Chinese, English

COURSEWORK

- Machine Learning
- Advanced Data Analysis
- Machine Learning For
Text Mining
- Natural Language
Processing
- Modern Regression
- Hierarchical Models
- Discrete Mathematics
- Operations Research
- Computer System
- Imperative Computation

EXPERIENCE

DATA SCIENTIST INTERN
EEME, LLC | PITTSBURGH, PA
MAY 2016 - JAN 2017

Designed and achieved an accurate predictive model for residential electricity usage of different time intervals to support the electricity trading system. Utilized various models and algorithms of time-series and machine learning when building the model. Constructed an analysis module on R and transferred the work from R to Python to fit the company's platform.

UNDERGRADUATE RESEARCHER
CERLAB | PITTSBURGH, PA
JAN - MAY 2016

Collaborated with a team to design the inventory management system for a shipping company using augmented reality(AR) system and QR code. Built a software using AR system to track movements of different objects and visualize the movements.

PROJECTS

SARCASM MACHINE
SEPT - DEC 2016

Collaborated with a group of three to explore how deep learning can be used for automated sarcasm detection from text. Cleaned and pre-processed the raw text datasets and built the deep networks from scratch to compare the F-Scores with other classifiers. Discovered different networks would result differently based on the length of input text.

CALCULUS HELPER
MAY 2014, JULY 2015

Created a software that recognized basic handwritten symbols and numbers quickly with a high recognition rate and calculated complex differentiation and simple integration problems based on the inputs. Applied k-NN algorithm for writing recognition and recursion for calculus calculation.

Q&A MACHINE
SEPT - DEC 2016

Worked with a group of four to build a software in python using multiple NLP packages and techniques to generate different types of questions and find the appropriate answers based on a piece of text.

ACTIVITIES

JAPANESE STUDENTS ASSOCIATION
2015 - 2016

Organized cultural events and activities for JSA as the culture chair.

PHAUNGDAWOO SCHOOL
SUMMER 2014

Worked and taught with a group of volunteer teachers in a monastic school in Myanmar and initiated the Chinese program in the school.

FRINGE
2013 - 2015

Attended CMU's buggy competition as a pusher and won 3rd place.