

Huifeng Jiang

Sr. Software Engineer, Manager of Digital Solutions Team

7 years experience in Software Development, Web Development, Data Analysis and Machine Learning with solid leadership and technical skills.

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EDUCATION

Tongji University — Bachelor in Civil Engineering

Sep 2007 - Jun 2011, Shanghai, China

Tongji University — Master of Engineering Management

Sep 2021 - Sep 2024, Shanghai, China (Part-time Program)

Main Courses: Applied Statistics, Data Analysis, Machine Learning, Operations Research, Linear Programming, Systems Engineering, Project Management

EXPERIENCE

Architecture Design and Research Institute of Tongji University (Group) Co., Ltd., Shanghai, China

Sr. Software Engineer, Manager of Digital Solutions Team

Jun 2011 - Mar 2023, below are some major projects I've accomplished

Modular Cloud Platform for Design Aiding

- Website system design, development and deployment on the cloud.
- Front End with HTML, Jinja2, Bootstrap and Javascript.
- Back End with Flask as webserver, Nginx as http and proxy server, Sqlite as database and SQLAlchemy as ORM.
- Applications developed with Python, SQL, Numpy, Pandas, etc.

Structure Health Monitoring using ML and Statistics

- Data Driven Anomaly Detection using AutoEncoder machine learning algorithm to lower difficulty and increase accuracy when compared to traditional rule driven methods.
- Data cleaning of GigaBytes of raw data collected from building sensors, to transform from txt format into structured data.
- Using Hypothesis Test to specify the abnormal sensors.

Structure Optimization using Operations Research

- Building Linear Programming Models(MIP, MINLP) to get the global optimum of structure problems.
- Developed optimization apps using Python and Solvers(SCIP)
- Efficient optimization method with solid theoretical foundation.

Certificate

Google Advanced Data Analytics Professional Certificate

SKILLS

Machine Learning, Data Analysis, Data Visualization, Applied Statistics, A/B test, Hypothesis Testing, Operations Research, Linear Programming

Python, SQL, Numpy, Pandas, Scipy, matplotlib, Flask, scikit-learn, statsmodels, Pytorch, CPLEX, Gurobi, SCIP, SQLAlchemy, Linux Shell, Git

Excel, Tableau, Airflow, Github, Microsoft Project, AWS, Azure

AWARDS

2020 Modular Cloud Platform for Design Aiding

2022 Knowledge Management Information System for Architectural Design Industry

Science and Technology Award Shanghai Architectural Society

LANGUAGES

English and Chinese