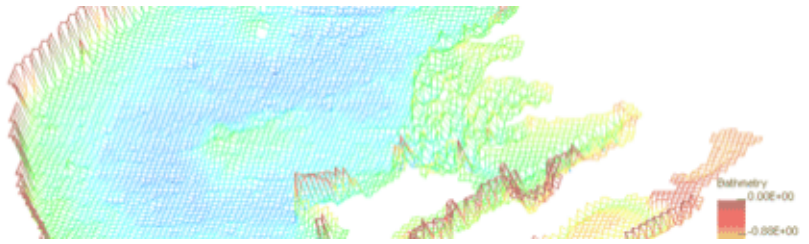# QUAN PAN

## CURRENT: DATA SCIENTIST

*Do not limit your potentials and creativities!*

### KEY STRENGTH

Productive, motivated, strong work ethic, willing to think and work outside working hours.

Easy to get along with, never sabotage or bring down team morale.

### CONTACT

+31 6 192 131 85
quanpan302@hotmail.com

Schiedam, The Netherlands



## WORK EXPERIENCE

**Geospatial Programmer**                    2019.09 – present

Land Water Management Department, IHE-Delft

- Standardize research software development in the team.
- Develop research softwares.
- Maintain open source tools.

**Data Scientist**                    2018.09 – 2019.08

Hydrology Department, Deltares

- Process large scale geospatial datasets by using GDAL library.
- Build python tools for spatial-temporal data analysis.
- Develop machine learning solution for time series data.
- Design database schema and web application architecture.
- Maintain web service under cloud environment.
- Prototyping innovative technologies.

**Full Stack Developer**                    2018.06 – 2018.08

Part time, Golden Circle Group B.V.

- Online shopping website maintenance, front and backend bug fix.
- Develope backend service to link ERP systems.

**Researcher**                    2012.07 – 2014.01

Hydro-informatics, UNESCO-IHE

- Scientific research on hydrodynamics in delta area.
- Guide master students.

***Engineer***                    2007.07 – 2010.07

*Shanghai Dredging Company, China*

## EDUCATION

**PhD Researcher**                    2014.01 – present

Hydro-informatics, UNESCO-IHE and Civil Engineering, TU Delft
Thesis: "Web-based Framework For Optimization and Decision Support Using Complex Water Models"

- ICeWATER project
  - Web-based DSS, online simulation and optimization.
- Wat€rnomics project
  - Web-based DSS, online simulation.
- Taihu Lake project
  - Water Quality, web-based DSS, online simulation, optimization, machine learning and surrogate model.

**Master of Science** (MSc)                    2010.10 – 2012.05

Coastal Engineering and Port Development, UNESCO-IHE, Delft, The Netherlands

**Bachelor of Science** (B.S.)                    2003.09 – 2007.07

Port, Coast and River-Regulating Engineering, Wuhan University (ranked 7th top Chinese university, 2003), Wuhan, China
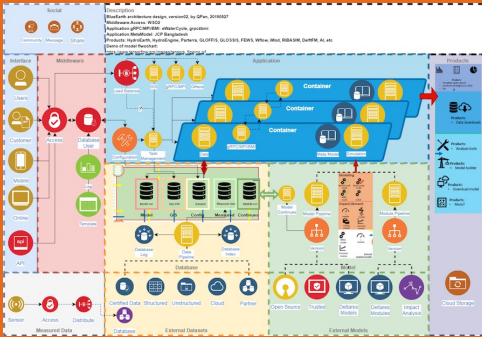
# PORTFOLIO

www.quanpan302.com

*Web Application*



*Architecture Design*

## REFERRERS

**Pieter Van Der Zaag**,

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**Marloes Mul**

Senior Lecturer in Water Resources Management, IHE-Delft

+31152151131, m.mul@un-ihe.org

## SKILLS

Fortran, C, C++, Python, Matlab, PHP, JavaScript, CSS, Database, LaTex, Docker, Linux, AWS, GIS

Numerical methods, Optimization, Decision Support System, Machine Learning.

## OPEN SOURCE PROJECTS

https://github.com/wateraccounting/IHEWAwapor

https://github.com/wateraccounting/IHEWAcollect

https://github.com/wateraccounting/IHEWAdataanalysis

https://github.com/wateraccounting/IHEWAreport

https://github.com/wateraccounting/IHEWAstandard