Tao Xiang

tao.xiang@tum.de | (+49) 1714843548 | https://yunshu.me/

Education

Technical University Munich
B. Sc. Informatics
2018.10 - Present | Munich, Germany

Wuhan University of Science and Technology
B. Sc. Mechanics
2016.09 - 2018.07 | Wuhan, China

- school-level first-class scholarship

Skills

Programming

over 5000 lines
- Python
- Java

1000 - 5000 lines
- C/C++
- SQL
- Haskell
- HTML/CSS

less than 5000 lines
- JavaScript
- PHP
- Markdown

Development

basics:
- Web Development
- Wechat Mini-program
- ROS

Data Science

Packages:
- Pandas
- NumPy
- Tensorflow
- Scikit-Learn
- Matplotlib
- openMP
- MPI

Models:
- common ML models
- basic ANN models

Tools

- Git
- VS code
- Jupyter
- Matlab
- Pycharm
- Intellij IDEA
- CLion
- Latex

Language

mother language
- chinese

fluently
- english
- german B2

Projects

Uni

Lab Course: Developing a Resource Planning Platform for Autonomous Vehicles
sem.5
The resource planner computes an architectural proposal based on predefined optimization goals for an autonomous driving vehicle by collecting system properties and AI-based application requirements.
- In a team of two persons.
- developed Kalmen filter in localization unit and object detection in perception unit alone
- developed resource planner jointly
- Github repository: https://cutt.ly/RaRPPfAV

Seminar Course: Computational Aspects of Machine Learning
sem.5
Topic: Machine Learning as a Black Box Solution
- understood the basic pipeline and commonly used algorithms of Auto-ML
- analyzed and compared the differences of various algorithms from a computational perspective
- Grade: 1.3
- paper

Lab Course: Computer Organization and Computer Architecture
sem.2
Topic: Edge Detection
implemented edge detection in pictures using assembly language in the form of three-pes on team.
- deeply understood how pictures are stored in computers
- compared the performance difference between Single Instruction Multiple Data (SIMD) implementation and non-SIMD implementation
- Github repository: https://cutt.ly/edge-detection

Lab Course: Fundamentals of Programming (PGdP)
sem.1
- mastered the Java language and common programming skills
- passed with 2.0 (avg 3.1)
- Github repository: https://cutt.ly/PGdP

extracurricular

Personal Blog Website
sem.5 - Present
- link : https://yunshu67.github.io/blog-taoxiang/

LeetCode Practices
sem.5 - Present
solve one algorithm problem every day
- my LeetCode profile: https://leetcode-cn.com/u/yunshu67/
- Github Repository
  - codes : https://github.com/yunshu67/leetcode
  - algorithm summary: https://github.com/yunshu67/algorithm-notes

Online Courses
ing
- ALGORITHM AND MODELING METHOD IN BIOMEDICAL IMAGING
- AI工程师-自然语言处理 (NLP)
- 深度学习Tensorflow2.0实战 (Deep Learning)