Tao Xiang

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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

Seminar Course: Computational Aspects of Machine Learning

sem.5 - Present

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

Praktikum Rechnerarchitektur

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://github.com/yunshu67/personal-projects/tree/main/uni-projects/EdgeDetection-team181/

Praktikum Grundlage der Programmierung (PGdP)

sem.1
- mastered the Java language and common programming skills
- passed with 2.0 (avg 3.1)
- Github repository: https://github.com/yunshu67/personal-projects/tree/main/uni-projects/Fundamentals_of_Programming

Excellent Exam Grades

- Linear Algebra: 1.0
- Discrete Probability Theory: 1.0
- Fundamentals of Algorithms and Data Structures: 1.3
- Fundamentals of Databases: 1.4

extracurricular

Personal Blog Website

sem.5 - Present
- got familiar with HTML, CSS, and JavaScript
- understood the general steps of web development
- link : https://yunshu67.github.io/blog-taoxiang/

LeetCode Practices

sem.5 - Present

solve one algorithm problem every day
- my LeetCode homepage: 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)

finished
- 零基础玩转HTML5及跨平台开发 (HTML5/CSS3)