Guoxu Yang

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Education

Henan Normal University **Sep. 2018 – May 2022**
Bachelor of Science in Computer Science *Xinxiang, Henan*

Relevant Coursework

- Data Structures
- Software Methodology
- Algorithms Analysis
- Database Management
- Artificial Intelligence
- Internet Technology
- Systems Programming
- Computer Architecture
- HPC Calculating
- Parallel Computing
- Machine Learning
- Deep Learning

Experience

Beijing Pactera Technology Co., Ltd. **August 2020 – May 2021**
Big data engineering training *Beijing*

- Distributed architecture and upgrade optimization technology for large-scale systems.
- Big data offline processing application technology and system implementation.
- Development and implementation of large-scale Internet education platform based on microservice architecture.

Projects

Array Mat | *C/C++, Matrix, Neural Networks* **January 2021**

- Toy-level neural network calculation module, based on a one-dimensional variable-length array to achieve high-dimensional matrices to achieve matrix operations in neural networks.
- Use a one-dimensional variable-length array to implement a high-dimensional matrix, and implement a simple imitation of the Caffee framework.
- Implementing high-dimensional matrices through one-dimensional variable-length arrays can reduce compilation difficulty and improve code execution efficiency.

Mnist Recognization | *Python, Numpy, Opencv* **November 2020**

- Build a CNN network and use Qt5GUI to realize handwritten digit recognition based on the Mnist data set.
- Use deep convolutional network and Opencv to achieve image recognition, use Mnist handwritten digit data set, use PyQt to implement GUI.
- Realize two modes of handwritten digit recognition and data set extraction test.

Information Management System GUI | *Python, Flask, Tkinter, Opencv* **October 2020**

- Use Flask to implement web pages and functions, use Tkinter to implement GUI, and use SVD-based methods to implement face recognition login.
- Database support based on Mysql, use multi-table operation and multi-table query.

Thesis

Road condition monitoring system based on YOLO | *Python, Pytorch, YOLO* **January 2022**

- Based on the YOLO model, this paper uses the image enhancement method to identify vehicles, pedestrians, license plates and road damage, evaluate the road condition quality, and monitor real-time road conditions.

Technical Skills

Languages: MATLAB, Python, Java, C/C++, SQL, LaTex, Markdown
Developer Tools: VS Code, Eclipse, Google Cloud Platform, Android Studio, Idea, Pycharm
Technologies/Frameworks: Numpy, Matplotlib, Pandas, Tensorflow, Pytorch, Linux, MPI, Openmp, Pthread

Leadership / Extracurricular

Honor **Summer 2018 – Present**

President *Henan Normal University*

- Communist Party members
- Won the school's outstanding Communist Youth League members for 3 consecutive semesters.
- Class disciplinary committee member, worked in the student union of the college, the school admissions office.
- Have the ability to read documents, proficient in the use of computer software, CET-4.
- The activists of the Party School of Henan Normal University Committee of the Communist Party of China scored 88 points in the exam.
- 2020 National Undergraduate Mathematical Contest in Modeling Provincial First Prize
- 2021 American Undergraduate Mathematical Contest in Modeling Provincial Third Prize
- 2021 National Undergraduate Mathematical Contest in Modeling Provincial First Prize
- Excellent Graduates of Henan Normal University
- Henan Normal University Excellent Graduation Thesis
- Henan Province Excellent Graduation Thesis (in application)