Ye Baiwei

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Education

Beihang University (BUAA), Beijing, China 2019 – Present

Master student in Software Engineering (SE), expected March 2021

Xidian University (XDU), Shaanxi, China 2015 – 2019

B.S. in Information Security

Experience

Software-defined cloud computing support platform for fusion of human, machine and things resource Sep. 2019 – Present

BUAA Institute of Advanced Computing Technology (ACT) Tutor - Wo Tianyu

Brief introduction: This project will build a unified resource requirements description specification, to implement the dynamic mapping between the requirements of human, machine and things resource and specific entities. With this specification, the applications of human, machine and things can adapt to the dynamics of resource of cloud and network layer collaborative computing, support the access of generic heterogeneous entities and satisfy the constraints of physical attributes of the resource.

- The whole platform is logically divided into cloud, network and end layer. I am mainly responsible for the monitoring and control of devices in end layer.

Baidu Inc. Beijing, China Apr. 2018 – Dec. 2018

Deep learning technology platform Department Intern

- Develop and maintain the data reading module of lego2paddle. In view of the consumption of memory by the original scheme is too large, the new scheme reduces the memory consumption at runtime as well as the time consumption.
- Reproduce PWIM model(a text matching model) based on PaddlePaddle. Contributed similarity_focus_op to PaddlePaddle in the process.
- Participated in the development of data conversion framework and data reading module of AsyncExecutor, a lightweight distributed training framework based on PaddlePaddle, which has been opened in PaddleFluid1.2. Some lightweight deep learning models (such as word2vec, CTR prediction, etc.) are characterized by small amount of computation and large amount of input data, and the main bottleneck of these lies in IO. AsyncExecutor is designed for this task, which improvement effect compared with the original executor of PaddlePaddle can be seen in the release note.

Honors and Awards

Golden Medal, The ACM-ICPC Asia regional contest (Qingdao site) Nov. 2017
3rd Prize, The third national cryptography competition Nov. 2017
Silver Medal, The ACM-ICPC Asia regional contest (Shenyang site) Oct. 2017
National Scholarship Sep. 2016

Skills

- Programming Languages: C/C++ > Python
- Platform: Linux

Miscellaneous

- Blog: https://barriery.cn
- GitHub: https://github.com/barrierye