

Wu Chong

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Interest positions

- **★** Data Engineer
- ★ Machine Learning Engineer (PyTorch and Hadoop)
- **★** Spark Engineer
- ★ Bigdata Engineer (Hadoop)

Education Background

★ 2018.08-2022.03 Nanyang Technological University Computational Fluid Dynamics
 Ph.D. candidate (passed qualifying examination and achieved candidate but quit myself after that)

GPA:3.58/5

★ 2015.09-2018.06 Beihang University Computational Fluid Dynamics M.E.

Rank of average score:60~90/210 GPA:3.24/4

★ 2010.09-2014.06 Nanchang Hangkong University Flight Vehicle Propulsion Engineering B.E.Rank of average score: 6/70 GPA:3.324/4

Internet Project Experience

- ★ 2022.07-2022.07 Build Hadoop Ecosystem Cluster with **Docker**(Wrote a Dockerfile to wrap Hadoop components, which can be used to construct the recommender system; Docker found by searching Dockerhub ID: didadidaboom; and docker file found at GitHub: didadidaboom (CHONG) · GitHub)
- ★ 2022.03-2022.06 Learnt **neural networks** theory systematically and practiced it by **PyTorch** (Lead all the processes from **data collection, cleaning, and pre-processing, to training models,** including Multilayer DNN, TrialNet, and Gan; Followed a paper and wrote its corresponding algorithm. Found here https://github.com/didadidaboom/NeuralNetwork-Practices)
- ★ 2022.02-2022.03 Repeated an open project "Recommend System: 黑马头条" (Practiced Hadoop ecosystem and its components, including Hadoop, Hive, Yarn, Sqoop, and Spark; Learned how the recommender algorithms developed from item-based and user-based recommendation to model-based recommendation. Lead all the processes from Flume, HDFS, Spark-SQL, Spark-ML, and Redis, to Recommender.)
- ★ 2021.12-2022.02 Started a Mini-program project "BKMIST", which is a social community and was published on the top of previous Mini-program "圈子" (The whole project was finished by myself, including concept design, database design, UI design, frontend (JavaScript) development, backend (python, Django Rest framework) development, and cloud server deployment; Project found at https://github.com/didadidaboom/bkmist-frontend)
- ★ 2020.05-2020.12 Organization of the development of a social App "圈子" (Including concept design, the product requirement written, and recruitment of members)
- ★ 2017.05-2017.10 Organization of the development of the auxiliary software for a trading platform (Including fundraising(in private), product requirement, recruitment of members, and organization of the developers)

Courses related to internet

- Special Advanced Topic: Digital Image Processing (including the algorithms of facial recognition and picture synthesis)
- ★ Artificial Intelligence in Game Design (including the algorithms of machine learning, such as supervised learning, unsupervised learning, and reinforcement learning)

Research Experience

- 2021.03-2021.10 Incorporated the LBFS and GKFS methods into the OpenFOAM (open **source**; C++) (success but the turbulent is still not verified)
- Parallel, 2D and 3D methods.
- 2020.07-2021.03 Development of Fortran packages for the LBFS and GKFS method (success)
- ▶ Both the LBFS and GKFS shared a same mesh package, which compacted files. The whole packages included 7-10 files. Do not support parallel running.
- **★** 2019.07-2020.07 Incorporated the combustion-support Lattice Boltzmann method into the open source, Palabos (C++) (failed)
- 2018.07-2019.07 Incorporated the Flamelet model into the open source, Cantera (C++), and wrapped them in Python package (success)
- Cantera part can be found in https://github.com/CHONGN/cantera.

Programing Skills & Softwares

English level: Overall Band Score 6.5 in IELTS and CET-6

Grade two C programming language, Python(skilled), C++, fortran (skilled) Computer level:

Java(understand), JavaScript

Professional skills: OpenFOAM, Palabos, ANSYS, CAD, Unity(familar)

Django(skilled), PyTorch, Hadoop, Spark, SQL(skilled)

social accounts

Github: didadidaboom

Dockerhub: dididadidaboom

Personal academic page: https://didadidaboom.github.io/academicpages

Personal blog: https://didadidaboom.github.io

Awards & Practices

2018-2022	Nanyang Technological University, Research scholarship			
2015-2018	Second-class scholarship of Beihang University (3 times)	School-level		
2010-2011	Merit student of Nanchang Hangkong University	School-level		
2010-2014	First, Second, Third and Second-class scholarship of Nanchang	Hangkong University		
respectively		School-level		
The 9th Zhou Peivuan Mechanics Competition for College students Province-level				

School-level

Excellent Student Cadre of School of Aircraft Engineering 201106

Academic Achievements

[1]. Wu C, Chan W L. Simulation of Scalar Transport in a Non-Reacting Turbulent Jet using the Lattice Boltzmann Method[C]//APS Division of Fluid Dynamics Meeting Abstracts. 2019: P41. 004.