XUEFENG JIANG

+86 18908026296 ⋄ Beijing, China

jiangxf0903@gmail.com ⋄ https://github.com/Sprinter1999

EDUCATION

Institute of Computing Technology, Chinese Academy of Sciences, Ph.D Student   09/2021 - Present

Major: Computer Science and Technology

Lab: Network Technology Research Center & State-Key Lab, supervised by Prof.Liu and Associate Prof.Wang.

GPA: **3.82**/4.00

Key Course: Pattern Recognition & Machine Learning(3.8), Computer Network(4.0), Multi-Media(4.0), etc

Beijing University of Posts and Telecommunications, Bachelor's Degree   09/2017 - 07/2021

Major: Network Engineering, School of Computer Science

GPA: 3.69/4.00 (Rank top 3%)

Award: Enterprise Scholarship (Top 10 out of 600), Outstanding Graduate of Beijing, etc

Key Course: Operating System(92), Algorithm(94), Web Development(90), Software Engineering(96), etc

RESEARCH EXPERIENCE

Academic Publication   8/2022

- Focus on the joint area of distributed MLsys (or Federated Learning, FL) and weakly-supervised learning.
- My first work got accepted at **ACM/CIKM '22** full paper track. The preprint link is here.
- Selected for the **NSF student travel grant award**.
- The code is open-sourced at Github and receives 18 stars up now.

R&D Project with Huawei MindSpore Team towards FL   10/2020 - 10/2021

- Reviewed a certain amount of papers related to FL.
- Reproduced some baselines for client-edge-cloud FL system and Asynchronous FL Optimization.
- Contributed to develop a holistic FL framework for research incorporating various optimization mechanisms, security techniques and a customizable data partition module. Some codes are adopted by MindSpore project.
- Other information remains secret for related cooperation policy :) .

OTHER ACTIVITIES

- **Opensource Contribution**: Previously worked as a opensource community volunteer at FedML, a start-up at UCLA. Currently contribute to a awesome paperlist opensource project Awesome-FL with 346 stars up now.
- **Development projects**: Image Manipulation Forensics (Pytorch), Hotel backend management system(Java), CPU function implement on a experimental chip(VHDL), C-Assembly Compiler(C/C++), Travelling Scheduling Router(Python/JavaScript), High-concurrency online shopping system(Golang), a interacting shell for human and embedded system(C), etc.

WORK EXPERIENCE

Algorithm Engineer Intern @Ai Startup Team from Tsinghua University   08/2020 - 11/2020

- Contributed to knowledge extraction from a large corpus of mathematics tests, and knowledge graph based knowledge management of mathematics concepts to serve for downstream tasks(eg. Auto inference and solution to mathematics problems).

Quality Assurance Intern @YuanFuDao Inc.   08/2019 - 10/2019

- Tested company's inner online management web frontend & backend functions.