

Zhanfu Yang

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130N Russel Street, West Lafayette, IN 47906

EDUCATION

Purdue University, Master of Computer Science	Aug 2018 - Dec 2019(expected)
Sun Yat-Sen University, Bachelor Degree in Computer Engineering	2014 - 2018
• Graduate with top 1% distinction.	GPA 3.8/4.0

SKILLS

Programming languages: Python, Java, C, C++, Assembly, Bash, SQL, PHP and JavaScript, LATEX, HTML, CSS, Git, VMWare, VirtualBox, MySQL, Unix, Linux, Mac OSX, Windows, Android.

Experienced Fields: Parallel Computing, Distributed System, Quantum Computing, Brain Science, BlockChain, Reinforcement Learning, Theory, Information Security and cryptography, Deep Learning, Pytorch, Tensorflow, Embedded System, Image processing, OpenCV, algorithm design, IOS/Android development, MySQL database.

PROFESSIONAL EXPERIENCE

Stanford University Snyder Lab	Stanford, CA
<i>Research Assistant (Large Scale Cloud Computing and Machine Learning Platform)</i>	May 2019 – Aug 2019

- Determine the feasibility of developing a cloud-based dashboard for running and monitoring pipelines.

Purdue Artificial Intelligence Lab (Yexiang Xue and Tiark Rompf Group)	West Lafayette, IN
<i>Research Assistant (Machine Learning Platform, Generative Adversarial Network)</i>	Sep 2018 – Present

- Generative Adversarial Imitation with scenes (Likes bedrooms and real images)
- Use Graph Neural Network in Machine Learning Platform

Cerias: The Center for Research in Information Assurance and Security	West Lafayette, IN
<i>Group member (Cryptography, SQL Injection, DNS spoofing)</i>	Sep 2018 – Current

- Perform buffer overflow to operating system, DDOS, cross-site scripting and SQL injection attack.

National Super Computer Center In Guangzhou	Guangzhou, China
<i>Software Engineer Intern (Full Stack, Parallel computing)</i>	Dec 2017 – May 2018

- Distributed optimize the chemical Application with OpenMP/MPI in the Tianhe-2 Super Computer.

SYSU Artificial Intelligence and Big Data Labs	Guangzhou, China
<i>Research Assistant – Inpluslab, HCPII Lab</i>	Oct 2015 – Sep 2018

- Multidomain's Improvement of Cycle Generative Adversarial Network.
- Designs a distributed machine learning platform for traffic prediction.

COMPETITION AWARDS

Worldwide TAMUctf 19: 19th / 1866, top 1%(Team member)	Feb 2019 – Mar 2019
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- Perform buffer overflow and return-to-libc attack to operating system, DDOS, cross-site scripting, cross-site request forgery and SQL injection attack to web app and web server.

Asia Student Supercomputer Challenge 2018 - First prize (Team Coach)	Dec 2017 - May 2018
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- Implemented memory management system and inter-process communication
- Instruct team member to install distributed system and test the Linkpad and HPCG in the system.

IBM Linuxone National Block Chain Hackthon - Third prize (Team Leader)	Dec 2017
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- Build a credit's block chain system base on the LinuxOne.
- Write the chain code base on Hyperledger's technology.

Kaggle : Two Sigama Rentaling --- Brozen, 47 Among Of 4577, top 1%	Mar 2017
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- Use boosting method(SVM, Regression, Random Forests) to predict the rental price for hourse.

Asia Student Supercomputer Challenge 2017 - First prize (Team Leader)	Dec 2016 - May 2017
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- Building cluster and install system, dug in the RDMA optimization parallel optimization biology application, optimization of Deep learning program base on Badidu' s PaddlePaddle.
- Dug into the kernel of CentOS, adjusted the buffer size and applied the InfiniBand carefully.
- Optimize the network of our system by maintaining high throughput and low latency.

International Genetically Engineer Machine Competition-Golden(member)	Mar 2016 - Nov 2016
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- A simulation program in the pre experiment of bacterial culture
- Data collection and analysis, Database building, Algorithm optimization.

IBM Power National Technology Contest - First prize (Team member)	May 2015 - Nov 2015
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- CUDA's parallel acceleration optimization for the matrix calculation.
- Optimize the algorithm with LSTM Model.