

# Xusheng CHEN

## PERSONAL DATA

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PLACE AND DATE OF BIRTH: China | 09 December 1993  
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## EDUCATION

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2017-CURRENT Ph.D in Computer Science, THE UNIVERSITY OF HONG KONG  
Research Interest: distributed systems, fault-tolerant protocols, distributed database and key-value  
Supervisor: Dr. Heming Cui.

2012-2017 Bachelor of Engineering in COMPUTER SCIENCE, THE UNIVERSITY OF HONG KONG  
Major: Computer Science | Minor: Mathematics  
cGPA: 3.7/4.3

JAN-JUN 2015 Exchange Student at UNIVERSITY OF CALIFORNIA, San Diego  
Major: Computer Science and Engineering  
GPA: 4.0/4.0

## PUBLICATIONS

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- **HAMS: High Availability for Distributed Machine Learning Service Graphs**  
Shixiong Zhao, **Xusheng Chen**, Cheng Wang, Fanxin Li, Ji Qi, Heming Cui, Cheng Li, Sen Wang  
*Proceedings of the 50th IEEE/IFIP International Conference on Dependable Systems and Networks (DSN '20)*  
\*Parallel First Author (annotated in the paper's first page)
- **UPA: An Automated, Accurate and Efficient Differentially Private Big-data Mining System**  
Tsz On Li, Jianyu Jiang, Ji Qi, Chi Chiu So, Jiacheng Ma, **Xusheng Chen**, Tianxiang Shen, Heming Cui, Yuexuan Wang, Peng Wang  
*Proceedings of the 50th IEEE/IFIP International Conference on Dependable Systems and Networks (DSN '20)*
- **Uranus: Simple, Efficient SGX Programming and Its Applications**  
Jianyu Jiang, **Xusheng Chen**, Tsz On Li, Cheng Wang, Tianxiang Shen, Shixiong Zhao, Heming Cui, Cho-Li Wang, Fengwei Zhang  
*Proceedings of the 15th ACM ASIA Conference on Computer and Communications Security (ASIACCS '20)*
- **Fulva: Efficient Live Migration for In-memory Key-Value Stores with Zero Downtime**  
Jiewen Hai, Cheng Wang, **Xusheng Chen**, Tsz On Li, Heming Cui  
*Proceedings of the 38th International Symposium on Reliable Distributed Systems (SRDS '19)*
- **PLOVER: Fast, Multi-core Scalable Virtual Machine Fault-tolerance**  
Cheng Wang, **Xusheng Chen**, Weiwei Jia, Haoran Qiu, Boxuan Li, Shixiong Zhao, Heming Cui  
*Proceedings of The 15th USENIX Symposium on Networked Systems Design and Implementation 2018 (NSDI '18)*  
\*Parallel First Author (annotated in the paper's first page)
- **APUS: Fast and Scalable PAXOS on RDMA**  
Cheng Wang, Jianyu Jiang, **Xusheng Chen**, Ning Yi, Heming Cui  
*Proceedings of the ACM Symposium on Cloud Computing (SOCC '17), 2017*

- **Effectively Mitigating I/O Inactivity in vCPU Scheduling**  
Weiwei Jia, Cheng Wang, **Xusheng Chen**, Jianchen Shan, Xiaowei Shang, Heming Cui, Xiaoning Ding, Luwei Cheng, F.C.M. Lau, Yuexuan Wang, Yuangang Wang  
*Proceedings of the 2018 USENIX Annual Technical Conference (ATC '18), 2018*
- **A Fast, General Storage Replication Protocol for Active-Active Virtual Machine Fault Tolerance**  
Cheng Wang, **Xusheng Chen**, Zixu Wang, Youwei Zhu, Heming Cui  
*Proceedings of the IEEE 23rd International Conference on Parallel and Distributed Systems (ICPADS '17), 2017*

## WORK EXPERIENCE

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DEC 2015-JUL 2016	<p>Researcher Assistant at LENOVO, Hong Kong <i>Center of Cloud Computing &amp; Big Data</i></p> <p>Developing a container/cluster management platform, based on Docker and written in Golang. User can apply for a n-node cluster through the Web-UI, with each node running as a docker container on the backend machines, together with Image management and status monitor features.</p> <p>Responsible for the backend API and UI initially and took over the Scheduler and Orchestration parts later.</p>
AUG 2015-NOV 2015	<p>Student Triantee at HSBC, Hong Kong <i>Central Change Delivery, HSBC Technology and Service</i></p> <p>Helping project managers to manage the end-to-end delivery of "Change the Bank" initiatives for business—from the creation of business cases, to the post implementation cases, mainly the complicated project involving several departments of the bank./</p>
JUNE 2014-AUG 2014	<p>Summer Intern at INSTITUTE OF AUTOMATION, CHINESE ACADEMY OF SCIENCE, Beijing <i>Laboratory of Complex Systems and Intelligence Science</i></p> <p>Developed a JSP website as a user interface to the project about automatic remote sensor and agricultural internet of things, with MySQL database.</p>

## SCHOLARSHIPS AND CERTIFICATES

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Nov 2014	Lee Shaw Kee Scholarships
2014-2015	Dean's Honours List
2015-2016	Dean's Honours List
2016-2017	Dean's Honours List