

EDUCATION	Ph.D., Database Systems	12/22/2019
	M.S., Computer Sciences	12/22/2013
	University of Wisconsin-Madison, Madison, WI, USA Thesis: Towards Efficient Data Processing Methods For In-Memory Architectures.	
	M.Eng., Computer Systems Organization	07/13/2012
	Harbin Engineering University (HEU), Harbin, China	
	B.Eng., Computer Science and Technology	07/09/2010
	Harbin Institute of Technology (HIT), Harbin, China	
EXPERIENCE	Sr. Software Engineer , Celonis Inc, Remote, U.S.	07/18/2022-09/30/2023
	<ul style="list-style-type: none">• Prototyped a new cloud-native Process Mining engine based on StarRocks.• Added specialized operators for graph functions in Process Query Language.	
	Software Engineer II , Amazon Web Services, East Palo Alto, CA	09/30/2019-05/17/2022
	<ul style="list-style-type: none">• Worked on Aurora MySQL (AMS), a cloud-native managed database service.• Launched AMS 8.0 as a team.• Improved AMS 5.7 functionality, availability, reliability, and security.	
	Research Assistant , UW-Madison, Madison, WI	01/22/2014-09/27/2019
	<ul style="list-style-type: none">• Worked on Quickstep to support TPC-H queries in C++.• Prototyped RecStep, the first efficient datalog engine on DBMS, including the bit-matrix approach for Transitive Closure (TC) and Same Generation (SG).• Worked towards a unified data engine for both SQL and graph analytics in Rust.	
	ACM SIGMOD Programming Contest , UW-Madison, Madison, WI	02/26/2018-04/08/2018
	<ul style="list-style-type: none">• Architected an in-memory analytical query engine from scratch as a team.• Proposed join-sum-aggregate operator fusion, and index-based linear-joins.• Winner among 30+ teams from 10+ countries.	
	Software Engineering Intern , Google Inc, Mountain View, CA	10/03/2016-12/30/2016
	<ul style="list-style-type: none">• Implemented multi-tenant interactive reporting service.	
	Software Engineer Intern , Pro Unlimited, San Francisco, CA	07/12/2016-09/30/2016
	<ul style="list-style-type: none">• Exploited streaming query plan generator on Twitter Heron.	
	Software Engineer Intern , Pivotal Software Inc, Palo Alto, CA	06/22/2015-07/02/2016
	<ul style="list-style-type: none">• Exploited distributed OLAP techniques in Apache Quickstep Incubator.	
	Software Engineer Intern , Pro Unlimited, San Francisco, CA	05/19/2014-08/08/2014
	<ul style="list-style-type: none">• Prototyped the first Mesos scheduler using the low level APIs for Twitter Heron.	

- Derived the Mesos Executor with automatic failover.
- Demonstrated the scheduler in C++ running on a Mesos cluster of 150 nodes.

EXTRA-	President , ACM Student Chapter, UW-Madison	2013-2015
CURRICULARS	Member , Hooper Sailing Club, UW-Madison	2013-2017

INTERESTS Sailing, clarinet, and travel (9 countries).