## **LIN JIANG**

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EDUCATION	
University of California, Riverside, US	Sep/16 - Sep/21
Ph.D. in Computer Science; GPA: 3.91/4.0	
Advisor: Prof. Zhijia Zhao	
Beijing University of Posts and Telecommunications – Beijing, China	Sep/08 - Mar/11
Master of Engineering in Computer Science; GPA: 3.4/4.0	
Northeastern University – Shenyang, China Bachelor of Science in Information and Computation Science; GPA: 3.6/4.0	Aug/04 - Jul/08
Lin Jiang and Zhijia Zhao. JSONSki: Streaming Semi-structured Data with Bit-Parallel Fast-Forwarding. In International Conference on Architectural Support for Programming Languages and Operating Systems,	
Lin Jiang, Junqiao Qiu, and Zhijia Zhao. <u>Scalable Structural Index Construction for JSON Analytics</u> . In <i>Proc</i>	
14(4): 2021.	
Junqiao Qiu, Lin Jiang, and Zhijia Zhao. Challenging Sequential Bitstream Processing via Principled Bitwis	se Speculation. In Proceedings
of the 25th ACM International Conference on Architectural Support for Programming Languages and Op	
607-621. (Best Paper Award)	
Lin Jiang, Xiaofan Sun, Umar Farooq, and Zhijia Zhao. Stream Processing of Contemporary Semi-Structure	
Parallel Processors - A Compilation-based Approach. In Proceedings of the 24th ACM International Confe	erence on Architectural
Support for Programming Languages and Operating Systems, 2019, pages 79-92.	
Lin Jiang and Zhijia Zhao. Grammar-aware Parallelization for Scalable XPath Querying. In Proceedings of	the 22th ACM SIGPLAN
Symposium on Principles and Practice of Parallel Programming, 2017, pages 371-383.	
PROFESSIONAL EXPERIENCE	
Meta Platforms, Bellevue, WA, US	Sep/21 – Present
Research Scientist	
<ul> <li>Working on the real-time distributed data analytics platform with high QPS and low latence</li> </ul>	У
University of California, Riverside, US	July/17 – July/21
Graduate Student Researcher	
<ul> <li>Designed and implemented scalable algorithms for optimizing the performance of semi-stu Proposed parallelize pushdown automaton for handling XML and JSON query processing Used SIMD and bitwise parallelism instructions to accelerate JSON query processing</li> </ul>	
Teaching Assistant	
CS 100: Software Construction [Fall 2017, Winter 2018]	
CS 153: Operating System [Fall 2017, Spring 2018]	
Facebook	Jun/20 – Sep/20
Software Engineer Intern	
<ul> <li>Worked in stream data processing team focusing on the execution plan optimization</li> </ul>	
Amazon	Jun/19 – Sep/19
Software Development Engineer Intern	
Worked on dynamic memory management for query processing in Amazon Redshift	
Department of Software Development, Bank of Beijing, China	Jul/11 - Apr/15
Technical Manager	2013-2015
Established online financing module for supply chain system     Ortimized the methods of laster branches and the second system	
<ul> <li>Optimized the performance of batch processing module in financing system by using multi antimization techniques (SQL antimization index construction atc.)</li> </ul>	iple threading and database
optimization techniques (SQL optimization, index construction, etc.) Software Engineer	2011-2013
<ul> <li>Participated in the development and maintenance of alipay, supply chain and financing system</li> </ul>	
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TALKS	

"JSONSki: streaming semi-structured data with bit-parallel fast-forwardings" at the 27th ACM International Conference on Architectural Support for Programming Languages and Operating Systems, 2022 [Remote] "Scalable Structural Index Construction for JSON Analytics" at 47th International Conference on Very Large Data Bases, 2021 [Remote] "Stream Processing of Contemporary Semi-Structured Data on Commodity Parallel Processors - A Compilation-based Approach" at 24th ACM International Conference on Architectural Support for Programming Languages and Operating Systems, 2019 "Grammar-aware Parallelization for Scalable XPath Querying" at 18th SoCal PLS, UCR, 2017 "Grammar-aware Parallelization for Scalable XPath Querying" at 22th ACM SIGPLAN Symposium on Principles and Practice of Parallel Programming, 2017

## **HONORS & AWARDS**

Dissertation Year Fellowship: University of California Riverside, US, 2020 Deans Distinguished Fellowship: University of California Riverside, US, 2016 – 2017 Travel Grant Awards: PPOPP'17, ASPLOS'19 Graduate Fellowship: Beijing University of Posts and Telecommunications, China, 2008-2011 Undergraduate Scholarship: Northeastern University, China, 2005-2008

## SKILL SET

Proficient with C/C++, JAVA, C#, Python programming languages Profound background in algorithm and coding; familiar with programming design patterns Familiar with semi-structured data, such as XML, JSON, etc. Familiar with SQL SERVER and ORACLE databases and SQL statements coding Familiar with web development (html, javascript, jsp, ASP.NET, etc.)