

William Luo Qian

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EDUCATION	Harvard University School of Engineering and Applied Sciences (SEAS) Cambridge, MA
	◇ PhD in Computer Science (Conferred May 2023) ◇ Thesis title: <i>Workload Adaptations for Contended Main-Memory Multicore Transactions</i> ◇ Advisor: Dr. Eddie Kohler (kohler@seas.harvard.edu)
	Massachusetts Institute of Technology (MIT) Cambridge, MA
	◇ MEng in Electrical Engineering and Computer Science (Conferred Sep 2016) <i>GPA: 5.0/5.0</i> ◇ Thesis title: <i>AuO: Audio Recorder and Editor on the Web</i> ◇ Thesis supervisor: Dr. Eric Klopfer (klopfer@mit.edu)
EDUCATION	Massachusetts Institute of Technology (MIT) Cambridge, MA
	◇ SB in Computer Science and Engineering, Mathematics (Conferred Jun 2016) <i>GPA: 4.5/5.0</i>
	Thomas Jefferson High School for Science and Technology (TJHSST) Alexandria, VA
◇ Graduated Jun 2012	
SKILLS	Programming: C, C++, Java, Python3, shell scripting (e.g. BASH), Julia
	Web Development: PHP, Django, HTML5, CSS3, JS (ES6), SVG, SQL
	Parallel Computing MPI, OpenMP, POSIX threads (pthreads.h), OpenCL, CUDA, CILK+, FaaS
	Typesetting and Mathematics L ^A T _E X, Asymptote, Mathematica, MATLAB
	Working in Linux and other UNIX-like environments
WORK EXPERIENCE	Software Engineer at MongoDB Jun 2023 to present
	◇ Query Optimization team ◇ Analyze and improve performance ◇ Work on the query optimizer
	Research Developer at One R Squared Dec 2022 to Apr 2023
	◇ Improved backend infrastructure ◇ Developed risk-related tooling ◇ Implement spreads trading features
	Software Engineer at Gem Aug 2022 to Nov 2022
	◇ Talent Discovery team ◇ Improved the search index ◇ Overhauled new hire setup process
	Software Engineering Intern at Google May 2019 to Aug 2019
	◇ SQL Pipeline team in Data Infra & Analysis ◇ Helped design streaming differential privacy features
	Software Engineer in Telecom Infra Project at Facebook Aug 2016 to Sep 2017
	◇ Worked on an OpenCellular-related project in the Boston office
Software Engineering Intern at Google Jun 2015 to Aug 2015	
◇ Google Cloud Dataflow SDK team ◇ Developed feature prototype for batch jobs	
Software Engineering Intern at Quora Jun 2014 to Aug 2014	
◇ Worked in user growth team on several projects for a better new user experience	
TJ IOI	Thomas Jefferson Invitational Open in Informatics (TJ IOI) Sep 2011 to Apr 2012
	◇ Created a CS competition for local middle and high school students in the Northern Virginia area ◇ First Chief Executive Officer, responsible for overall and day-of logistics, and external-facing interactions ◇ Current website: https://activities.tjhsst.edu/tjioi
AWARDS	46th Conference on Very Large Databases (VLDB) Best Paper Sep 2020
	◇ Best paper award: <i>Opportunities for Optimism in Contended Main-Memory Multicore Transactions</i> ◇ Co-authored paper with collaborators Yihe Huang, Eddie Kohler, Barbara Liskov, Liuba Shrira
	EECScon Poster Session Apr 2015
◇ 3 rd place poster: <i>Concurrent Skip Quadrees Using Transactional Memory on Intel[®] Haswell Machines with Transactional Synchronization Extensions</i>	
VOLUNTEERING	President of the American Software Society Jul 2023 to present
	◇ Non-profit for computer literacy ◇ Run the company's operations ◇ Research/implement programs
	HMMT Sep 2015 to Present
◇ Currently in advisory and software roles ◇ Served in many roles, mostly advisory, in the past	