Ben Zhang

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University of Waterloo

B. Math. Computer Science, Combinatorics/Optimization. GPA: 3.9+

• Recipient of the CIBC National Scholarship, granted to one top performer in Math and CS.

EXPERIENCE

Hudson River Trading	New York, NY
Algorithm Developer	August 2020 - Present
	New York, NY tember 2019 - December 2019
\cdot (NDA) Alpha research; deploying ML/complex statistical inference mod	ő
Hudson River Trading Core Intern	Chicago, IL / New York, NY May 2019 - August 2019
+ (NDA) C++, Python, SIMD/AVX. Research in efficient computing in h	high frequency space.
MemSQL Query Optimization, Software Engineering Intern	Seattle, WA May 2018 - August 2018
• Developed sampling optimizations for the MemSQL engine, a distribute Uniform sampling from rowstore tables was improved exponentially by i	
• Designed and implemented the Automatic Histogram Generation Frame histogram statistics on columns for cardinality estimation, and improves	
Facebook Applied ML, Software Engineering Intern	Menlo Park, CA May 2017 - August 2017
+ Caffe2 (now PyTorch 1.0) is a deep learning framework, powering all of	Facebook's ad delivery.
• Implemented compile-time optimizations such as Common Subexpressio a framework which tests optimizations at run-time, only applying them	
 For a Hackathon, created a tool in Hack/PHP which displays activity for Heatmap. Tool is adopted by Data Science teams, the only intern Hacka 	- • •
Awards	
International Olympiad in Informatics, Bronze Medal	2014, 2015
International Olympiad in Linguistics, Honorable Mention	2015
Canadian Mathematics Olympiad, 11th place (2014), 14th place (201	2014, 2015
Traders at MIT, 2nd place overall, 1st place in Day of Competition	2020
Jane Street Trading Hackathon, 1st place	2016 (SF), 2017 (UW)
Projects and Organizations	
Waterlo Data Science Club President (Sept 2018 - April 2019), Lecturer	2017 - Present
• Hosted weekly lectures on statistics and machine learning topics, and or hundreds of members. Founded the reading group for reinforcement lear	-
MIT Battlecode	2017

2nd Place, Waterloo Omega Ruby

• Worked in a team of three to develop a AI which plays a real time strategy game over the course of a month. Placed 2nd over 1000+ teams, in a double knockout elimination bracket.

Waterloo ACM-ICPC

Waterloo Red (3rd team)

Canadian Computing Competition

Problemsetting Committee

 \cdot Collaborating with CS professors, developed algorithmically challenging problem sets for 3000+ high school students in Canada. Gave presentations during the IOI selection camp to top 20 finishers.

Waterloo, ON 2015 - April 2020

2015 - 2018

2015 - Present