Joon Kyung Kim https://jkim796.github.io/

RESEAR	CH INTERESTS									
Com	nputer Architect	ure • Comp	iler Optimiz	zations •	• Op	perating	g Syste	ems •	Machir	ne Learnir
EDUCA ⁻	ΓΙΟΝ									
Geo	rgia Institute of T	echnology								
M.S. in Computer Science								Expected	d May 201	
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	rgia Institute of T									1.54
	B.S. in Compute Advisor Dr. H	' Science Iadi Esmaeilzade	ah.							May 201
HONOR	S AND AWARD	S								
Dicti	inguished Paper A	\ward in IEEE (vmposium c	on High De	arforr	mance (^omput	tor Ara	chitecture	· 20
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PUBLICA	ations									
Conf	ference Papers									
				2017						
	J. Park, H. Sharma, [Learning " 50 th Inte	rnational Sympos	ium on Micro	architecture	e (MI	CRO), O	ctober 2	017.		nine
	H. Sharma, J. Park, [Models to FPGAs"			. Shao, and H	H. Esm	naeilzade	eh, "Fror	n High-	Level Deep	
	D. Mahajan, J. Park, Template-based Fr a Performance Comp	amework for Acc	elerating Stat	tistical Mac	chine L	Learning	<u>"</u> 22 nd I	EEE Syı		
Tech	nical Reports									
				2015						
	D. Mahajan, J. Park, Template-based Fr									

[P1] D. Mahajan, J. Kim, A. Ardalan, A. Kumar, and H. Esmaeilzadeh, "In-RDBMS Hardware Acceleration of Advanced **Analytics**" 44^{th} International Conference on Very Large Data Bases (VLDB 2018).

2017

GT-CS-15-07.

In-Progress

PROFESSIONAL EXPERIENCE

AMAZON WEB SERVICES | SOFTWARE DEVELOPMENT ENGINEER INTERN

SUMMER 2017 | SEATTLE, WA TEAM: AWS AURORA POSTGRES

MENTOR: Arun Sudhir • MANAGER: Ashutosh Galande

 Designed and implemented a client authentication mechanism for AWS Aurora Postgres and RDS Postgres customers by integrating the AWS IAM (Identity and Authentication Management) service.

DELL SECUREWORKS | SOFTWARE DEVELOPER CO-OP

SPRING 2015, SUMMER 2014, FALL 2013 | ATLANTA, GA

TEAM: CUSTOMER PORTAL TEAM

MENTOR: Veera Rayala • MANAGER: Chris Phillips

 Developed the customer web portal system and a company internal tool for visualizing server performance metrics.

TEACHING EXPERIENCE

Teaching Assistant

Course | Compiler Design (CS 6241)

Instructor | Dr. Santosh Pande

Location | Georgia Institute of Technology

Semester | Spring 2018

Teaching Assistant

Course | Design and Analysis of Algorithms (CS 3510)

Instructor | Dr. Richard Peng

Location | Georgia Institute of Technology

Semester | Fall 2017

Head Teaching Assistant

Course | Design and Analysis of Algorithms (CS 3510)

Instructor | Dr. Merrick Furst

Location | Georgia Institute of Technology

Semester | Spring 2017

Teaching Assistant

Course | Design and Analysis of Algorithms (CS 3510)

Instructor | Dr. Richard Peng

Location | Georgia Institute of Technology

Semester | Fall 2016

SKILLS

PROGRAMMING LANGUAGES

■ C, C++, Python, Java, Bash

FRAMEWORKS

LLVM

ARTIFACTS

■ TABLA: An accelerator generator for statistical machine learning algorithms | http://act-lab.org/artifacts/tabla

■ DNNWEAVER: Framework for accelerating Deep Neural Networks

http://act-lab.org/artifacts/dnnweaver