# 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 <sup>-</sup>	ΓΙΟΝ									
Geo	rgia Institute of T	echnology								
M.S. in Computer Science								Expected	d May 201	
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HONOR	S AND AWARD	S								
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	J. Park, H. Sharma, [ <b>Learning</b> " 50 <sup>th</sup> 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, <b>"Fror</b>	n High-	Level Deep	
	D. Mahajan, J. Park, <b>Template-based Fr</b> a Performance Comp	amework for Acc	elerating Stat	tistical Mac	chine L	Learning	<u>"</u> 22 <sup>nd</sup> I	EEE Syı		
Tech	nical Reports									
				2015						
	D. Mahajan, J. Park, <b>Template-based Fr</b>									

[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 Ravala • MANAGER: Chris Phillips

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

## TEACHING EXPERIENCE

## Teaching Assistant

**Course** | Advanced Compiler Optimizations (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