MICHAEL B. SULLIVAN Report of the model of

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RESEARCH INTERESTS	I am interested in the design of dependable and efficient computer systems. research is focused on cross-layer system architecture and it uses hardware imsoftware techniques, and novel hardware/software collaborative mechanisms as	provements,
PROFESSIONAL EXPERIENCE	NVIDIA Corporation, Santa Clara, CA Research Scientist, Architecture Research Group (ARG)	2015-
	Research Assistant Positions	
	University of Texas, Austin, TX Los Alamos National Laboratory (LANL), Los Alamos, NM	2010-2015
	George Mason University, Fairfax, VA	2011 2007–2008
	Argonne National Laboratory, Argonne, IL	2007
	University of California at Irvine, Irvine, CA	2006
EDUCATION	University of Texas, Austin, TX	
	Ph.D. in Computer Engineering	2015
	M.S.E. in Computer Engineering	2011
	George Mason University, Fairfax, VA	
	M.S. in Computer Science	2009
	B.S. in Computer Engineering and B.A. in Mathematics, summa cum laude	2007
SELECTED PUBLICATIONS	"SwapCodes: Error Codes for Hardware-Software Cooperative GPU Pipeline Error Detection," in the <i>International Symposium on Microarchitecture (MICRO)</i> .	2018
	"Understanding Error Propagation in Deep Learning Neural Network (DNN) Accelerators and Applications," in the Conference on High Performance Computing, Networking, Storage and Analysis (SC).	2017
	"All Inclusive ECC: Thorough End-to-End Protection for Reliable Computer Memory," in the <i>International Symposium on Computer Architecture (ISCA)</i> .	2016
	"Bamboo ECC: Strong, Safe, and Flexible Codes for Reliable Computer Memory," in the <i>Symposium on High Performance Computer Architecture (HPCA)</i> .	2015
	"Containment Domains: A Scalable, Efficient, and Flexible Resilience Scheme for Exascale Systems," in the <i>Conference on High Performance</i> Computing, Networking, Storage and Analysis (SC).	2012
SELECTED	Cockrell School of Engineering Fellowship	2011-13
AWARDS	National Defense Science & Engineering (NDSEG) Graduate Fellowship	2008-11
	Outstanding Achievement Award in Graduate Computer Science	2009
	GMU University Scholar	2004-08
HARDWARE	Binary instrumentation and workload characterization; microarchitectural simulation; VHDL/Verilog and the Synopsys tools for RTL design and analysis.	
SOFTWARE	C/C++ (CUDA/OpenCL/MPI/OpenMP), Python (numpy/scipy/numba/Pandas), Matlab.	