

EDUCATION	◇ Doctor of Philosophy, Computer Science and Engineering University of Michigan. Advisor: Daniel Genkin, Alex Halderman Research Topic: Rowhammer attack and defenses Expected Graduation: 05/25	Sep. 2020 - Present
	◇ Master of Science, Intelligent Systems Seoul National University, Korea. Thesis: CAT-TWO: Counter-based Adaptive Tree, Time Window Optimized for DRAM Rowhammer Prevention Advisor: Jung Ho Ahn	Mar. 2018 - Feb. 2020
	◇ Bachelor of Science, Electrical and Computer Engineering Seoul National University, Korea. * 2 year leave due to military service	Mar. 2011 - Feb. 2018
RESEARCH EXPERIENCE	◇ Visiting Scholar , Computer Systems Laboratory Cornell University Advisor: G. Edward Suh Research topic: memory deduplication & compression	Oct. 2019 – Dec. 2019
	◇ Undergraduate Researcher , MWNL Seoul National University Advisor: Sunghyun Choi Research topic: LTE deployment in the unlicensed spectrum	Jan. 2016 – May. 2016
WORK EXPERIENCE	◇ Intern , Context Part, Kakao Enterprise Worked on optimizing mobile NMT and deployment	Mar. 2020 – Aug. 2020
	◇ Intern , Mobile Communications Business, Samsung Electronics	Jul. 2017 – Aug. 2017
PUBLICATIONS	<ol style="list-style-type: none">Youssef Tobah, Andrew Kwong, <u>Ingab Kang</u>, Daniel Genkin, Kang G. Shin "SpecHammer: Combining Spectre and Rowhammer for new speculative attacks," <i>IEEE Symposium on Security and Privacy (S&P)</i>, 2022Sungbo Park, <u>Ingab Kang</u>, Yaebin Moon, Jung Ho Ahn, G. Edward Suh "BCD Deduplication: Effective Memory Compression Using Partial Cache-Line Deduplication," <i>International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS)</i>, 2021<u>Ingab Kang</u>, Eojin Lee, and Jung Ho Ahn "CAT-TWO: Counter-based Adaptive Tree, Time Window Optimized," <i>IEEE Access</i>, 2020.Eojin Lee, <u>Ingab Kang</u>, Sukhan Lee, G. Edward Suh, and Jung Ho Ahn "TWiCe: Preventing Row-hammering by Exploiting Time Window Counters," <i>International Symposium on Computer Architecture (ISCA)</i>, 2019.Kangjin Yoon, Taejun Park, Jihoon Kim, Weiping Sun, Sunwook Hwang, <u>Ingab Kang</u>, and Sunghyun Choi "COTA: Channel occupancy time adaptation for LTE in unlicensed spectrum," <i>International Symposium on Dynamic Spectrum Access Networks (DySPAN)</i>, 2017.	
PATENT	◇ US Patent 11,037,618 , Eojin Lee, <u>Ingab Kang</u> , and Jung Ho Ahn "Row hammer prevention circuit, a memory module including the row hammer prevention circuit, and a memory system including the memory module"	
PEER REVIEW	◇ USENIX Security , 22	
SKILLS	◇ Proficient Programming Languages: C/C++, Python, Rust	