





ByeongYong (Benn) Go

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Education

Georgia Institute of Technology

Master of Science in Cybersecurity (The School of Computer Science)

Atlanta, GA

Aug 2022 - Dec 2023 (Expected)

Seoul National University

Bachelor of Science in Electrical and Computer Engineering

Seoul, South Korea

* 2-years leave due to military service for Republic of Korea Air Force

Mar 2014 - Aug 2020

Achievements: Outstanding Member Award @ SK Hynix, Innovative Patent Award @ SK Hynix, National Scholarship for Science and Engineering @ Korea Student Aid Foundation

Work Experience

Georgia Institute of Technology

Graduate Research Assistant

Atlanta, GA

Aug 2022 - Present

- Research Topic: RowHammer - Memory side-channel attack and defences, Advisor: Daniel Genkin
- Implementing memory side-channel attacks by manipulating memory access patterns regarding management systems of OS and modern Intel architecture mainly with C++ and x86_64 Assembly.

SK Hynix

Software Engineer / Design Engineer

Icheon, South Korea

Jul 2020 - Aug 2022

- Led the development of company-wide DRAM simulator critical to \$36.35 billion in revenue per year for DRAM security analysis with Agile development process using C++, Python, Shell.
- Paper: "A 1.1-V 16-Gb DDR5 DRAM with probabilistic aggressor tracking, refresh management function, per-row hammer tracking, multi-step precharge, and core bias modulation for security and reliability enhancement." 2023 IEEE International Solid-State Circuits Conference (ISSCC) (Accepted/to appear)
- Conducted 5+ successful JEDEC JC-42 committee meetings with client companies (Google, Apple, Microsoft, Intel, Qualcomm, etc.) by providing data analysis of core products with visualization to support key business strategies.

Other Experience

- **Leadership:** Vice President & Group Leader of Evangelical Student Fellowship, university union in Seoul of South Korea

Patents

- **Go, B.Y.** "Integrated circuit and a memory device including sampling circuit" U.S. Patent Application No. 17/703, 581.
- **Go, B.Y.** "Memory device for performing smart refresh operation and memory system including the same" U.S. Patent Application No. 17/731, 375. & No. 17/591, 982.

Technical Skills

- **Programming Languages:** C/C++, Python, Go, Shell, MySQL, x86_64 Assembly, Verilog, MATLAB
- **Framework/Technologies:** System(Linux); Version Control(Git); Low-level Debug(GDB); ML(Pytorch, Scikit-learn, Numpy, Pandas)

Coursework

Distributed Systems

Advanced Operating Systems

Advanced Computer Architecture

Algorithm

Secure Computer Systems

Applied Cryptography

Network Security

Data Structure