ByeongYong (B.Y.) Go

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EDUCATION

Georgia Institute of Technology   Atlanta, GA
Master of Science - MS, Computer Science   *Aug 2022 - May 2024 (Expected)*

Seoul National University   Seoul, South Korea
Bachelor of Science - BS, Electrical and Computer Engineering   *Mar 2014 - Aug 2020*
*2-year leave due to military service

Achievements: Outstanding Member Award, Innovative Patent Award @ SK Hynix ● National Science and Engineering Scholarship @ Korea Student Aid Foundation ● Rank ~200, KSAT of 600,000 candidates.

EXPERIENCE

Amazon   Palo Alto, CA
Software Development Engineering Intern   *May 2023 - Aug 2023 (Expected)*

Georgia Institute of Technology   Atlanta, GA
Graduate Research Assistant   *Aug 2022 - Present*
- Conducting empirical research in microarchitectural side-channel attacks under Prof. Daniel Genkin
- Developing attack programs using C++, and Rust to bypass OS and architectural protections by modifying kernel

SK Hynix   South Korea
Software Engineer   *Jul 2020 - Aug 2022*
- Led the development of company-wide memory simulator which is essential for $36.35 billion of revenue every year
- Conducted 5+ successful JEDEC JC-42 committee meetings with client vendors (Google, Apple, Microsoft, Intel, Qualcomm, etc.) by providing data analysis of core products with visualization to support key business strategies
- Published top-tier 1 IEEE paper and 7 US Patents(Accepted/to appear) and won the Outstanding Member Award
- Developed in-house ML tool for system workload analysis including pre-processing, pipelining and core algorithm

Seoul National University   Seoul, South Korea
Student Researcher   *Dec 2019 - June 2020*
- Developed embedded system with C over TI microcontroller for utilizing digital signal processing
- Designed specialized PCB board to support peripheral logic control and Bluetooth transmission

PROJECTS

C Compiler | *C*
- Built a compiler with C for a personalized programming language

YouTube Clone | *Java, Spring, Maven, JavaScript, Angular, MongoDB, AWS S3*
- Developed an YouTube replica including all application features enabled using pipeline with MongoDB and AWS

Edge IPC platform | *C++*
- Built a low-level inter-process communication client/server protocol and interface targeting low-resource edge devices. Leveraged knowledge and skills of load balancing, multi-threading, message queue and shared memory

LEADERSHIP

- Vice President of Evangelical Student Fellowship, organizing programs for University club with ~60 people

TECHNICAL SKILLS

Languages: C++, C, Python, Java, Assembly, Javascript, HTML/CSS
Frameworks/Technologies: Cloud (AWS, Docker); Database (SQL/NoSQL); Web (React, Node.js, Express.js); Version Control (Git), ML (Scikit-learn, NumPy, Pandas)

SELECTED COURSEWORKS

Distributed Systems	Advanced Operating Systems	High Performance Computing	Advanced Computer Architecture
Compiler Design	Computer Networks	Advanced Algorithm	Applied Cryptography
Digital Circuit Design	Digital Signal Processing	Quantum Mechanics	Advanced Engineering Mathematics