

Yong Go

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WORK EXPERIENCE

Athelas - YC16 | Python, PostgreSQL, GCP, Kubernetes, Redis Mountain View, CA
Software Development Engineer Feb 2024 -

- Provide operating system that supports automated data pipeline and AI-assisted support for healthcare providers
- Build and maintain data infrastructure including customer-facing APIs and ETL pipeline for sensitive medical data

Georgia Tech | C++, Rust, Linux, Computer Architecture, x86, ARM Atlanta, GA
Graduate Research Assistant Aug 2022 - Dec 2023

- Conducted empirical research on micro-architectural side-channel attacks under guidance of Prof. Daniel Genkin
- Consolidated heavy memory access software to bypass systematic protections, utilizing kernel drivers and fuzzing
- Implemented memory side-channel attacks by developing low-latency memory access codes and manipulating memory access patterns regarding management systems of OS and modern ARM/Intel architecture mainly with C++

Amazon | Typescript, Java, AWS CDK, CloudFormation, CloudWatch, IAM Palo Alto, CA
Software Development Engineering Intern May 2023 - Aug 2023

- Launched end-to-end distributed backend system health monitoring solution, reducing org's monitoring cost by 30%

SK Hynix | C++, Python, C, Linux, Shell, Automation Icheon, South Korea
Software Engineer Jul 2020 - Aug 2022

Main memory simulation framework | C++, Python, Linux

- Led the development of simulation framework, which was embraced across the company and slashed a product development phase by over 40%, contributing to \$36.35 billion annual revenue
- Architected and empowered a high-performance simulation environment by integrating Python and C++
- Formulated pipeline for DL classifier for memory simulator transforms and feeds data as a self-feedback system

Embedded fault-repair system | C, Linux

- Implemented an embedded fault-repair system for manufacturing edge devices for optimizing profitability. Rigorously evaluated the system's accuracy and performance through thorough manual/automated testing

Accomplishments / Ownership | Python, Shell, Automation

- Won an Outstanding Member Award for contributing to the publication of a top-tier IEEE paper and 7 US patents
- Owned in-house automation and big data processing tools that cumulatively saved over 30 man-hours per week

EDUCATION

Georgia Institute of Technology Atlanta, GA
Master of Science - MS, Computer Science Aug 2022 - Dec 2023

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

PROJECTS

MapReduce on Azure

- Implemented a MapReduce deployed with Kubernetes and Docker cluster on Azure, serving REST API requests
- Orchestrated the adoption of real-time gRPC APIs and failure-tolerant features like leader election and replica

TECHNICAL SKILLS

Programming Languages: C++, Python, Java, Typescript, C

Technologies & Frameworks: *Backend* (FastAPI, gRPC), *Infrastructure* (Docker, Kubernetes), *Big Data* (PostgreSQL, MongoDB, Snowflake), *Cloud* (AWS, GCP, Azure), *SWE Tools* (Git, GitHub, Linear, ReTool)