

# JOOYOUNG PARK

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## EDUCATION

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### Nanyang Technological University

*Aug 2023 - Present*

Ph.D. Student in Computer Science & Engineering with NTU-SINGA Award

Advised by Prof. Dmitrii Ustiugov

Research Interest: Serverless Computing, Systems for Machine Learning

### Korea University

*Mar 2017 - Feb 2023*

B.S. in Electrical Engineering

Dean's List: (Honors) 2018 Spring, 2018 Fall, (High Honors) 2022 Spring

On leave from 2020 Spring to 2022 Spring to serve alternative military service

Member of Hands

Member of Korea University Ski Team

Overall GPA: 3.77/4.5

## ACADEMIC EXPERIENCE

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### HyScale Lab

*Aug 2023 - Present*

*Ph.D. Student*

*Nanyang Technological University*

- Airflow with Knative Support **Demo** at SOSF '23
- Artifact Evaluation Committee at HPCA '24

### High Performance and Intelligence Computer Lab

*May 2020 - April 2023*

*Undergraduate Student Researcher*

*Korea University*

- Dataloader Parameter Tuner: An Automated Dataloader Parameter Tuner for Deep Learning Models at **arXiv** (First Author)
- Enabling Large Batch Size Training for DNN Models Beyond the Memory Limit While Maintaining Performance at **IEEE Access** (Third Author)
- A Survey on the Advancement of Virtualization Technology at **KIPS '23** (First Author)

### Compiler & Microarchitecture Lab

*Jul 2019 - Dec 2019*

*Undergraduate Student Researcher*

*Korea University*

- Undergraduate Thesis: Study of Efficient Vector Calculation Using Register Grouping on RISC-V Based Rocket Core

## UNDERGRADUATE PROJECTS AND RESEARCH EXPERIENCE

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### Hands (Hardware and Software)

*Mar 2017 - Feb 2023*

- Engineering Capstone Design: Li-Fi Car Designed from Circuit Level (Grand Prize Winner)
- Student Society Executive Board (Technical Manager)
- 2019, 2020 Creative Challenger Program
- The World Embedded Software Contest - Humanoid Division (Prize Winner)
- Held Seminars on Arduino, C, Operating Systems, Computer Architecture

## SKILLS

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### Languages

Korean (Native Speaker), English (TOEFL 101/120, GRE V 152 Q 170 AW 4.0)

### Computer Languages

Python, Go, C (Programming Language), Assembly (ARM), Verilog HDL

### Software & Tools

Docker, AWS, Matlab

### Hobbies & Interests

Alpine Ski, Swimming