

Jinsol Park

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RESEARCH INTEREST

Systems for processing large-scale, real-time workloads in distributed environments

EDUCATION

Seoul National University (SNU)

Candidate for Bachelor of Engineering

Major: Intense Major in Computer Science and Engineering

Seoul, Korea

Mar 2018 - Feb 2023 (Expected)

(GPA 3.72/4.3) (Major 3.8/4.3)

RESEARCH EXPERIENCE

- **Architecture and Code Optimization Lab** Seoul, Korea
Advisor: Prof. Jae W. Lee, Department of Computer Science and Engineering, SNU Jun 2022 - Present
 - Optimized inter-device communication for MoE training
 - Designed systems for federated learning of MoE
 - Designed systems for DL model privacy via permutation
- **Software Platform Lab** Seoul, Korea
Advisor: Prof. Byung Gon Chun, Department of Computer Science and Engineering, SNU Jan 2021 - Jun 2022
 - Designed a specialized key value store for streaming workloads
 - Designed a prompt tuning method for in-context learning
- **Thunder Research Group** Seoul, Korea
Advisor: Prof. Jae Jin Lee, Department of Computer Science and Engineering, SNU Aug 2020 - Dec 2020
 - Profiled runtime breakdowns of different DL frameworks using Nsight Compute

PUBLICATIONS

- Lee, G.; Maeng, J.; **Park, J.**; Seo, J.; Cho, H.; Yang, Y.; Um, T.; Lee, J.; Lee, J. W.; Chun, B. G., “FlowKV: A Semantic-Aware Store for Large-Scale State Management of Stream Processing Engines”, *Proceedings of the Eighteenth EuroSys Conference* (2023)
- **Park, J.**; Koo, Y.; Chun, B. G., “Analyzing Computational Efficiency of Diverse Sparse Attention Mechanisms”, *Korea Software Congress* (2021)
- **Park, J.**; Choi, M.; Matteson, A.; Lee, C., “Optimizing ELECTRA-based model for Zero Anaphora Resolution”, *Human and Language Technology* (2021)

TEACHING EXPERIENCE

- **Undergraduate Teaching assistant (Computer Architecture)** Seoul, Korea
Advisor: Prof. Jin Soo Kim, Department of Computer Science and Engineering, SNU Fall 2022
- **Undergraduate Teaching assistant (Discrete Mathematics) - Best TA Award** Seoul, Korea
Advisor: Prof. Yong Soo Song, Department of Computer Science and Engineering, SNU Fall 2021
- **Undergraduate Teaching assistant (Logic Design)** Seoul, Korea
Advisor: Prof. Ji Hong Kim, Department of Computer Science and Engineering, SNU Fall 2020

WORK EXPERIENCE

- **NCSoft Corp.** Pangyo, Korea
Software Research Intern in Natural Language Understanding Team, NLP lab Jul 2021 - Sep 2021
 - Optimized an ELECTRA-based model for Korean Zero Anaphora Resolution

EXTRA-CURRICULAR ACTIVITIES

- **Deepest** Seoul, Korea
SNU graduate-level academic deep learning association, weekly hostings covering numerous DL fields Mar 2022 - Present
- **Problem Solved** Seoul, Korea
SNU graduate-level problem solving study group Jan 2022 - Jun 2022
- **Bacchus** Seoul, Korea
SNU CS Department resource management group Jul 2021 - Dec 2021

TECHNICAL SKILLS

- **Programming Languages:** Python, C/C++, Java
- **Frameworks:** PyTorch, PyTorch-Lightning, Pandas, Matplotlib
- **Tools and Skills:** Git, Docker, LaTeX