

JEONG, GEONHWA

POSTECH, Cheongam-ro 77, Pohang, Republic of Korea.

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RESEARCH INTERESTS

Computer architecture, Parallelization, VLSI design, Computer system design for big data, Deep learning

EDUCATION

Bachelor of Engineering in Creative IT Engineering August 2013 - February 2019 (expected)

Double Major in Computer Science and Engineering

Pohang University of Science and Technology (POSTECH), GPA: 3.91/4.3

Exchange Student

July 2013 - December 2013

State University of New York at Stony Brook

EXPERIENCES

Computer Vision Lab in POSTECH

September 2018 - Present

Research Intern

Pohang, Republic of Korea

- Conduct the research on self-supervised learning for object detection.
- Design convolutional neural network architecture.

Samsung Research

July 2018 - August 2018

Summer Intern

Seoul, Republic of Korea

- Developed cloud management system adopting GitOps philosophy.

Core Lab in POSTECH

September 2017 - June 2018

Research Intern

Pohang, Republic of Korea

- Developed IoT platform for various types of users.

Korea Augmentation to the US Army

November 2015 - August 2017

Service Member

Seoul, Republic of Korea

- Served mandatory military service as a movement specialist.

DB Lab in POSTECH

March 2015 - November 2015

Research Intern

Pohang, Republic of Korea

- Developed new graph database system which can process large amount of streaming data.
- Involved in developing memory management system and evaluating the entire graph database system.

Kakao Corp.

Server Maintenance Intern

January 2015 - February 2015

Seongnam, Republic of Korea

- Developed abusing users detection algorithm in a social network platform.

PUBLICATIONS

[1] Kyoungmin Kim, In Seo, Wook-shin Han, Jeong-Hoon Lee, Sungpack Hong, Hassan Chafi, Hyungyu Shin, **Geonhwa Jeong**. 2018. "TurboFlux: A Fast Continuous Subgraph Matching System for Streaming Graph Data". In Proceedings of the 44th International Conference on Management of Data, ACM SIGMOD, Houston, USA.

[2] **Geonhwa Jeong**, Jaeil Kim, Taeho Kim, Jinah Park. 2012. "3D Interactive Visualization Method with Confirmation and Prediction of the Object Shape for Assistance of Manual Image Segmentation". In Proceedings of the 2012 KISS Fall Conference.

HONORS AND AWARDS

National Scholarship from ICT Creative Consilience Program

March 2013 - Present

SKILLS

Programming	C/C++, Java, Python, Verilog, Ocaml
Scripting	Javascript, PHP
Others	Hadoop, PyTorch

EXTRA-CURRICULAR ACTIVITIES

Student Mentor Program in POSTECH

September 2017 - Present

- Teach C programming to freshman students.

Qualcomm IT Tour

June 2018

- Presented future 5G usecases in Qualcomm Headquarters.

Einstein Class of Korea Hydro & Nuclear Power

January 2018

- Volunteered as a mentor for teaching English to high school students.