Sanghoon Kim

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Work Experience

Software Engineer, Lunit Inc.   *Aug. 2021 - Present*

Developing an annotation tool for pathologists to better-annotate cancer cells and tissues from large-scale slide images, thus improving cancer prediction quality of artificial intelligence models.

Education

Korea Advanced Institute of Science and Technology (KAIST)   *Sep. 2019 - Aug. 2021*

M.S. in Computer Science (Advisor: Prof. In-Young Ko)
Scholarship supported by Korean government   Overall GPA: 4.05 / 4.3

Ulsan National Institute of Science and Technology (UNIST)   *Mar. 2015 - Aug. 2019*

B.S. *magna cum laude* in Electrical and Computer Engineering
Majored in Computer Science and Engineering   Overall GPA: 3.78 / 4.3
Minored in Management Engineering   Major GPA: 3.99 / 4.3

Research Experience

Paper Reviewer

PACM IMWUT (UbiComp), 2021

Internship at iVADER Lab., UNIST   *Jan. 2018 - May 2019*

Research Intern (Advisor: Prof. Sungahn Ko)
Participated in a project which aims to formulate problems during mobile application prototyping and build solutions for helping users to design mobile applications.

Internship at NECSST Lab., UNIST   *Sep. 2016 – Aug. 2017*

Research Intern (Advisor: Prof. Sam H. Noh)
Studied briefly about Linux kernel, distributed computer & storage systems, and flash memory & FTL (Flash Translation Layer).

Publications

International Conferences

[3] C. Lee, S. Park, H. Song, J. U. Ryu, <u>S. Kim</u>, H. Kim, S. Pereira, and D. Yoo, "Interactive Multi-Class Tiny-Object Detection," In *2022 IEEE/CVF Conference on Computer Vision and Pattern Recognition* (**CVPR 2022**), To appear.

[2] <u>S. Kim</u> and I.-Y. Ko, "A Conversational Approach for Modifying Service Mashups in IoT Environments," In *Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems* (**CHI '22**)

[1] C. Lee, <u>S. Kim</u>, D. Han, H. Yang, Y. Park, B. C. Kwon and S. Ko, "GUIComp: Design and Evaluation of Mobile GUI Design Assistant with Real-Time, Multi-Faceted Feedback," In *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems* (**CHI '20**)

Domestic Conferences

[1] K.D. Baek, <u>S. Kim</u> and I.-Y. Ko, "Development of Platform-independent IoT Service Framework for Solving Heterogeneity Problem (이종성 문제 해결을 위한 플랫폼 독립적인 IoT 서비스 프레임워크)," In *Proceedings of 2020 Korea Software Congress* (KSC2020)

[2] <u>S. Kim</u> and I.-Y. Ko, "Conversational Services Composition Model to Support End-User Services Composition in IoT Environments (IoT 환경에서 최종 사용자 서비스 조합을 지원하기 위한 대화형 서비스 조합 모델)," In *Proceedings of 2020 Korea Computer Congress* (KCC2020) **[Best Paper Award]**

[3] <u>S. Kim</u> and I.-Y. Ko, "Precondition and Goal State Assertion for Improving the Reliability of Trigger-Action Based Service Mashup (트리거–액션 기반 서비스 매쉬업의 신뢰도를 개선하기 위한 전제 상태 및 목표 상태 검증 방법)," In *Proceedings of the 22nd Korea Conference on Software Engineering* (KCSE '20), Short Paper

Domestic Journals

[1] <u>S. Kim</u> and I.-Y. Ko, "A User-Centric Conversational Service Mashup Model and Engine (사용자 중심의 대화형 IoT 서비스 매쉬업 모델과 엔진)," In *Journal of KIISE* (JOK), 48(5), pp. 584-594, May 2021.

Posters

[1] K. Kim, <u>S. Kim</u>, C. Lee and S. Ko, "Poster: Modeling Exploration/Exploitation Decisions through Mobile Sensing for Understanding Mechanisms of Addiction," In *Proceedings of the 17th Annual International Conference on Mobile Systems, Applications, and Services* (MobiSys '19), Poster

[2] Y. Han, C. Lee, <u>S. Kim</u> and S. Ko, "Poster: System Architecture for Progressive Augmented Reality," In *Proceedings of the 17th Annual International Conference on Mobile Systems, Applications, and Services* (MobiSys '19), Poster

Other Experience

Teaching Assistant   *Fall 2019*
  2019 Fall   – Introduction to Services Computing (CS459)   *Spring 2020*
  2020 Spring – Data Structure (CS206)   *Fall 2020*
  2020 Fall   – Introduction to Services Computing (CS459)

International Exchange Student to HKUST, Hong Kong   *Jun. 2018 - Aug. 2018*

Domestic Exchange Student to SNU, Republic of Korea   *Jun. 2016 - Aug. 2016*
                                                              Dec. 2016 - Feb. 2017

Awards

Gary Marsden Travel Awards (GMTA) 2022   *Mar. 2022*

  Awarded $2,655 of travel support by the ACM Special Interest Group on
Computer-Human Interaction (SIGCHI) for the CHI '22 participation.

Best Teaching Assistant Award, KAIST   *Spring 2020*
                                                                   Fall 2020

Excellence Award in 2017 Korea Supercomputing Challenge   *Oct. 2017*
  Awarded by the president of KSCSE (Korean Society for Computational Science and
Engineering) with KRW 500,000 (about $500) in prize.

Excellence Award in UNIST×NAVER D2SF×LikeLion Hackathon   *Nov. 2018*
  Awarded by LikeLion foundation with KRW 1,000,000 (about $1,000) in prize.

Dean's List, UNIST   *Spring 2017*
  2017 Spring semester (GPA: 3.92 / 4.3)   *Spring 2018*
  2018 Spring semester (GPA: 4.10 / 4.3)   *Fall 2018*
  2018 Fall   semester (GPA: 4.05 / 4.3)

Academic Performance Scholarship, UNIST   *Mar. 2015 - Aug. 2019*
  Full-tuition scholarship with monthly stipend of KRW 160,000
(about $160).