

Daye Nam

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Education

- 2018–Present **Carnegie Mellon University, Pittsburgh, USA.**
Ph.D. student in Software Engineering
- 2016–2018 **University of Southern California, Los Angeles, USA.**
Master of Science in Computer Science (GPA: 3.78/4.0)
- 2012–2016 **Yonsei University, Seoul, Korea.**
Bachelor of Science in Computer Science (GPA: 3.94/4.3)
- 2014–2015 **University of California Irvine, Irvine, USA.**
International Exchange program, Major: Computer Science (GPA: 3.92/4.0)

Research Experience

- 09/2018 – **Graduate Research Assistant, Advisor: Brad Myers and Bogdan Vasilescu.**
Present Carnegie Mellon University, Pittsburgh, USA
◦ Mining large software repositories to detect API usability issues.
- 05/2017 – **Directed Research, Advisor: Nenad Medvidovic.**
07/2018 Software Architecture Research Group, University of Southern California, Los Angeles, USA
◦ Designed and built a tool for visualizing software architecture evolution with contextual information.
◦ Built a benchmark for event-based systems security vulnerability and evaluated existing vulnerability detection tools.
- 05/2017 – **Directed Research, Advisor: Mayank Kejriwal.**
04/2018 Information Sciences Institute, University of Southern California, Los Angeles, USA
◦ Conducted an empirical study on organizations that expose semantically linked Schema.org annotations.
◦ Embedded natural language documents as a rich network to improve performance on the multi-class document classification problem.
- 01/2017 – **Directed Research, Advisor: Joseph Lim.**
03/2017 University of Southern California, Los Angeles, USA
◦ Designed and implemented the experimental tools for crowdsourcing, and collected video-image-annotation data using Amazon Mechanical Turk.
- 12/2015 – **Research Assistant, Advisor: SeonJoo Kim.**
07/2016 Computational Intelligence & Photography Lab, Yonsei University, Seoul, Korea
◦ Conducted research to improve the image digital processing pipeline for smart-phone cameras.
◦ Performed experiments on deep learning based image filtering with different deep learning models.
- 01/2013 – **Research Assistant, Advisor: InKwon Lee.**
03/2014 Computer Graphics & Applications Lab, Yonsei University, Seoul, Korea
◦ Designed and performed experiments on Just-Noticeable Difference (JND) between sound and vision in a 3D environment based on a Head-Related Transfer Function (HTRF) data.

Publications

- Daye Nam** and Mayank Kejriwal. (2018) How Do Organizations Publish Semantic Markup? Three Case Studies using Public Schema.org Crawls. *IEEE Computer*, vol. 51, no. 6, pp. 42-51.
- Arman Shahbazian, **Daye Nam**, and Nenad Medvidovic. (2018) Toward Predicting Architectural Significance of Implementation Issues. *15th Working Conference on Mining Software Repositories (MSR)*.
- Daye Nam**, Youn Kyu Lee, and Nenad Medvidovic. (2018) EVA: A Tool for Visualizing Software Architectural Evolution. *40th International Conference on Software Engineering (ICSE)*.

Youn Kyu Lee, **Daye Nam**, and Nenad Medvidovic. (2017) Identifying Inter-Component Communication Vulnerabilities in Event-based Systems. *Technical Report*.

Youn Kyu Lee, Peera Yoodee, Arman Shahbazian, **Daye Nam**, and Nenad Medvidovic. (2017) SEALANT: A Detection and Visualization Tool for Inter-App Security Vulnerabilities in Android. *Proceedings of the 32nd IEEE/ACM International Conference on Automated Software Engineering (ASE)*. *Best Tool Paper Award*.

Awards & Honors

- 2018 **SIGSOFT CAPS student travel award for ICSE 2018, ACM SIGSOFT**
- 2018 **Best Research Award, Department of Computer Science, University of Southern California**
- 2017 **Academic Excellence Scholarship, Yonsei Alumni Association of Southern California**
- 2017 **Best Tool Paper Award, ASE 2017**
- 2014 – 2015 **Academic Excellence Scholarship, Korea Student Aid Foundation**
- 2015 **Grand Prize, Graduation Exhibition, Computer Science, Yonsei University**
- 2013 **Outstanding Paper Award (National), WISSET**
- 2013 **Outstanding Paper Award (Incheon, Seoul), WISSET**
- 2013 **Academic Excellence Scholarship, Yonsei University**

Skills

Languages Java, Python, HTML, CSS, Javascript, C/C++, Matlab, PHP, MySQL
Libraries d3.js, Gensim, nltk, scikit-learn, Pandas, StatsModels

Experience

- 05/2018 **International Conference on Software Engineering, Student Volunteer**, Gothenburg, Sweden.
 - Volunteered for technical assistance and registration duties.
- 06/2014 – **Likelion, Teacher**, Seoul, Korea.
- 11/2014
 - Taught and mentored 20 non-CS major students to improve programming skills and knowledge to make their own applications. Students made 6 web services and 2 teams started their own start-up.
 - Acceptance rate: 11.3% (Teacher), 6.7% (Student)
 - *HTML/CSS/Javascript/Jquery/Python/MySQL*
- 11/2013 – **U.Genie.us., Junior Developer**, Seoul, Korea.
- 04/2014
 - Implemented a management page for a mobile application.
 - Implemented a web application to manage electronic records for Ewha Hospital. Took charge of 3 main pages and core functions: accounts management, reservation management, mother notes, etc.
 - *HTML/CSS/LESS/Javascript/Jquery/Backbon.js*
- 01/2014 – **Microsoft Imagine Cup**, Seoul, Korea.
- 03/2014
 - Designed and prototyped an open lecture platform, which utilized Open Course Ware (OCW) and let the prosumers take or organize courses for students.
 - Advanced to the Korean Final.
 - *Javascript/UML*