

# Daye Nam

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## Education

- 2018–Present **Carnegie Mellon University, Pittsburgh, USA.**  
Ph.D. in Software Engineering
- 2016–2018 **University of Southern California, Los Angeles, USA.**  
M.S. in Computer Science
- 2012–2016 **Yonsei University, Seoul, Korea.**  
B.S. in Computer Science
- 2014–2015 **University of California Irvine, Irvine, USA.**  
International Exchange Program, Major: Computer Science

## Research Experience

- 09/2018 – **Graduate Research Assistant, Advisor: Brad Myers and Bogdan Vasilescu.**  
Present Carnegie Mellon University, Pittsburgh, USA
- Mine large software repositories to identify and study API usability issues.
- 05/2017 – **Research Assistant, 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 – **Research Assistant, 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. *Proceedings of the 15th International Conference on Mining Software Repositories (MSR)*.

**Daye Nam**, Youn Kyu Lee, and Nenad Medvidovic. (2018) EVA: A Tool for Visualizing Software Architectural Evolution. *Proceedings of the 40th International Conference on Software Engineering: Companion Proceedings (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 Yoodde, 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 International Conference on Automated Software Engineering (ASE)*. *Best Tool Paper Award*.

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## 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), WISET**

2013 **Outstanding Paper Award (Incheon, Seoul), WISET**

2013 **Academic Excellence Scholarship, Yonsei University**

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## Skills

Languages Java, Python, HTML, CSS

Libraries d3.js, Gensim, nltk, scikit-learn, Pandas, StatsModels

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## 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)
- Supported by Google.
- 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*