Youngsuk Kim

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INTERESTS Memory safety & deadlock safety in Programming Languages, programming language design

EDUCATION

Georgia Institute of Technology, USA

- **M.S./PhD in Computer Science** (Adviser: Dr. Vivek Sarkar) Aug 2018 – now

University of California, Irvine, USA

- **Access-UCI** (took course IN4MATX102 , A+) Apr 2018 – Jun 2018

Korea University, Seoul, Korea

- **B.S. in Computer Science and Engineering** (GPA : 4.09 / 4.5) Mar 2014 – Feb 2018

COMPUTER SKILLS

Most Familiar Rust, Python(+ NumPy, Pandas), Java, C/C++
Moderate Haskell, JavaScript, OCaml, MATLAB, LaTeX

AWARDS & SCHOLARSHIPS

- **Georgia Tech Presidential Fellowship**, *Georgia Institute of Technology* 2019 – now
- **National Science and Engineering Scholarship**, *Korea Student Aid Foundation* 2016 – 2017
- Semester High Honors, *Korea University* 2014, spring 2015, fall 2016, 2017
- Honors Scholarships, *Korea University* fall 2014
- Academic Excellence Scholarship for Freshmen, *Korea University* spring 2014

EXPERIENCE

Georgia Institute of Technology May 2019 – now
Graduate Research Assistant (Adviser: Professor Vivek Sarkar) Atlanta, GA

- Identify security vulnerabilities and performance issues of the Rust programming language

Georgia Institute of Technology Jan 2019 – May 2019
Graduate Teaching Assistant (CS 4240 : Compilers & Interpreters, Dr. Vivek Sarkar) Atlanta, GA

- Graded and designed course projects and assignments. Made review materials for class worksheets

Data Intelligence Lab Sep 2015 – Oct 2016
Undergraduate Intern (Adviser: Professor SangKeun Lee) Korea University, Korea

- Implemented article recommendation engine (using JAVA)
- Studied large-scale XML parsing and how to manage hierarchical dataset with MySQL

COURSES

- **Graduate**
  - Systems & Networks, Intro to Info Security, Intro to Health Informatics
  - Machine Learning for Trading, A.I., Parallelizing Compilers
- **Undergraduate**
  - Compilers, Programming Languages, Theory of Computation, Formal Logic, Computer Architecture, Computer System Design, Operating Systems, Databases, System Programming, Information Security, Computer Network, Distributed Processing, Machine Learning, Data Science, A.I., Information Retrieval, Linear Algebra, Special lecture on Deep Learning
- **Coursera**
  - Parallel, Concurrent, and Distributed Programming in Java, a 3-course specialization by Rice University on Coursera. August 19, 2019
  - Build a Modern Computer from First Principles: Nand to Tetris Part II (project-centered course) by Hebrew University of Jerusalem on Coursera. July 20, 2018
  - Build a Modern Computer from First Principles: From Nand to Tetris (project-centered Course) by Hebrew University of Jerusalem on Coursera. February 7, 2018
  - Machine Learning by Stanford University on Coursera. May 4, 2017