Hyeyoung Shin

Resumé

Contact Information

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USA

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Interests

I am an avid programmer who is passionate about developing algorithms for solving complex problems and learning languages. I have two years of post-masters experience developing large software systems.

Education

Northeastern University. MS in Computer Science 2017–2019
Advisor: Dr. Amal Ahmed

University of Hawai'i, Mānoa. Course work in mathematics and computer science 2016–2017

Iowa State University. Course work in mathematics and computer science 2014–2016

Kyeongpook National University. Bachelor of Arts, English Language and Literature 2004–2009

Professional Experience

Czech Technical University. Software Engineer and Researcher on the Signatr Project 2019–
Supervisor: Professor Jan Vitek and Christoph Kirsch

Czech Technical University. TA for OOP design course by Filip Krikava Fall 2020

Iowa State University. TA for data Structures course by Yan-Bin Jia Fall 2015

Programming Skills

C/C++. Built a dynamic tracer, fuzzer, and database for analyzing R programs and inferring function types

R. Big data analysis and data visualization

Java. Built a number of apps including language popularity ranking by collecting and analyzing stackoverflow data

Racket. Implemented interpreter generator parametrized by representations of env and closure

SML. Implemented a compiler that compiles Tiger language to MIPS assembly.

Other. Scala, Spark, Hadoop, Python, Git, LaTeX, Docker, Coq.

Additional Training

Midlands Graduate School in Foundations of Computing Science — University of Birmingham
Topics: lambda calculus, category theory, univalent type theory in Agda — April 2019

The Racket School of Semantics and Languages — University of Utah
Topics: semantics and language design — July 2017

Oregon Programming Languages Summer School — University of Oregon
Topics: dependent, gradual, and substructural type systems — June 2017

Midlands Graduate School in Foundations of Computing Science — University of Birmingham
Topics: type theory, denotational semantics, category theory — April 2016

Oregon Programming Languages Summer School — University of Oregon
Topics: type theory, logic, semantics, verification — June 2016

Functional Programming Principles in Scala — École Polytechnique Fédérale de Lausanne
Topics: 6-week online course with verified certificate — Grade Achieved: 94%

Awards

Northeastern University Ph.D. Graduate Fellowship — Boston, 2017–2018
Scholarships to attend Oregon Programming Languages Summer Schools — Eugene, 2016, 2017
Scholarship to attend POPL Programming Languages Mentoring Workshop — St. Petersburg, 2016
Scholarship to attend ICFP Programming Languages Mentoring Workshop — Vancouver, 2015

Leadership

Organizer of *PL Jr. Study & Research Group*, Northeastern University 2018-2019