Hyeyoung Shin

Resumé

Contact Information

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Introduction

Avid and curious developer with a passion for performance and elegance. Love functional programming and developing algorithms that solve complex problems. Three and a half years of post-masters experience developing large scale software systems and open source libraries.

Education

Northeastern University. MS in Computer Science 2017–2019
Advisor: Prof. 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

Work Experience

Library Engineer at RelationalAI, Berkeley 2022–2024
Developed a scalable and robust graph analytics library which customers can use to perform data analysis in their cloud platforms

R&D Engineer at Programming Research Laboratory, Czech Technical University 2019–2021
Developed an open source tool that offers a better testing framework by allowing programmers to uncover new (unexpected) behaviors of their programs written in dynamic languages

Teaching Assistant at Czech Technical University Fall 2020
Taught recitations and led exercise sessions for international students for OOP design in Scala

Research Assistant at Programming Research Laboratory, Northeastern University Fall 2018
Worked on a proof of secure compilation from STLC to System F using logical relations

Teaching Assistant at Iowa State University Fall 2015
Taught weekly recitations for Java data structures course

Languages

R. Implemented an open source tool that infers function type signatures by fuzz testing with data acquired by tracing source code from CRAN, designed a structured database with a query API, conducted exploratory data analysis and visualization (source code link).

Java. Wrote a number of business applications including language popularity ranking by collecting and analyzing stackoverflow data.

C/C++. Designed a dynamic tracer which instruments the execution of R programs with customized hooks in C (source code link).

Other. Java, Julia, Python, Scala, Git, Unix, LaTeX

Honors

Northeastern University Ph.D. Graduate Fellowship Boston, 2017–2018
Scholarships for Oregon Programming Languages Summer Schools Eugene, 2016, 2017

References

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