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INTERESTS	Programming languages, type theory, and functional programming	
EDUCATION	<p><b>Northeastern University.</b> MS in Computer Science 2017–2019 Advisor: <a href="#">Professor Amal Ahmed</a></p> <p><b>University of Hawai‘i, Mānoa.</b> Course work in mathematics and computer science 2016–2017 Graduate: logic, recursion theory; undergraduate: concurrent programming, topology</p> <p><b>Iowa State University.</b> Course work in mathematics and computer science 2014–2016 Graduate: Programming languages, formal methods, computability; Undergraduate: OOP, data structures, algorithms, abstract algebra, intro to proofs, calculus</p> <p><b>Kyeongpook National University.</b> Bachelor of Arts, English Language and Literature 2004–2009</p>	
ADDITIONAL TRAINING	<p><a href="#">Midlands Graduate School in Foundations of Computing Science</a> University of Birmingham Topics: lambda calculus, category theory, univalent type theory in Agda April 2019</p> <p><a href="#">The Racket School of Semantics and Languages</a> University of Utah Topics: semantics and language design July 2017</p> <p><a href="#">Oregon Programming Languages Summer School</a> University of Oregon Topics: dependent, gradual, and substructural type systems June 2017</p> <p><a href="#">Midlands Graduate School in Foundations of Computing Science</a> University of Birmingham Topics: type theory, denotational semantics, category theory April 2016</p> <p><a href="#">Oregon Programming Languages Summer School</a> University of Oregon Topics: type theory, logic, semantics, verification June 2016</p> <p><a href="#">Functional Programming Principles in Scala</a> École Polytechnique Fédérale de Lausanne Topics: 6-week online course with <a href="#">verified certificate</a> Grade Achieved: 94%</p>	
PROFESSIONAL EXPERIENCE	<p><b>Czech Technical University.</b> Researcher on the Signatr Project 2019–2021 Supervisor: <a href="#">Professor Jan Vitek</a> and <a href="#">Christoph Kirsch</a></p> <p><b>Czech Technical University.</b> TA for OOP design course by <a href="#">Filip Krikava</a> Fall 2020</p> <p><b>Iowa State University.</b> TA for data Structures course by <a href="#">Yan-Bin Jia</a> Fall 2015</p> <p><b>Gyeongsan Girls’ High School.</b> English Teacher 2009–2013</p>	
RESEARCH	<p><i>The Signatr Project:</i> developing a system for inferring function types in R programs with Jan Vitek, Christoph Kirsch, Filip Krikava, and Yuan Cao</p> <p><i>A fully abstract compilation from a total to a partial language.</i> H. Shin (submitted to POPL)</p>	
PROGRAMMING EXPERIENCE	<p><b>R.</b> Building a tracer and database for function arguments and return values for a research project</p> <p><b>Racket.</b> Implemented an <a href="#">interpreter generator</a> parametrized by representations of environment and closure</p> <p><b>SML.</b> Implemented a compiler that compiles <a href="#">Tiger language</a> to MIPS assembly.</p> <p><b>Other.</b> Scala, Java, Git, L<sup>A</sup>T<sub>E</sub>X,</p>	
AWARDS	<p>Northeastern University Ph.D. Graduate Fellowship Boston, 2017–2018</p> <p>Scholarships to attend <a href="#">Oregon Programming Languages Summer Schools</a> Eugene, 2016, 2017</p> <p>Scholarship to attend <a href="#">POPL Programming Languages Mentoring Workshop</a> St. Petersburg, 2016</p> <p>Scholarship to attend <a href="#">ICFP Programming Languages Mentoring Workshop</a> Vancouver, 2015</p>	