Anton Xue

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Contact
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Interests
Programming languages, automata theory, formal methods
mathematical analysis, linear algebra, combinatorics

Work Experience

Research Intern — 06/2019 – Present
Nokia Bell Labs

Research Assistant — 09/2015 – 05/2019
Yale University Department of Computer Science

Research Intern — 05/2018 – 08/2018
Harvard John A. Paulson School of Engineering and Applied Sciences

Research Intern — 05/2017 – 08/2017
Max Planck Institute for Software Systems

Software Engineering Intern — 05/2014 – 08/2015
Harvard Medical School

Education

B.S. Mathematics and Computer Science — 08/2015 – 05/2019
Yale University

Awards and Honors

Yale Computer Science Award — 05/2019

National Science Foundation Graduate Research Fellowship — 04/2019

Yale College Freshman Summer Research Fellowship — 04/2016

Conference Publications

Lazy Counterfactual Symbolic Execution — 06/2019
PLDI 2019

Conference Presentations

Towards the Formalization and Analysis of R — 11/2018
FMCAD 2018 Student Forum

Building a Symbolic Execution Engine for Haskell — 11/2017
FMCAD 2017 Student Forum

Building a Symbolic Execution Engine for Haskell — 08/2017
TAPAS 2017

A Symbolic Execution Framework for Haskell — 01/2017
POPL 2017 Student Research Competition

Teaching

Yale Undergraduate Teaching Assistant
MATH 305 Real Analysis (Course Grader) — Spring 2019
CPSC 202 Mathematical Tools for Computer Science — Fall/2016, Fall/2017, Fall/2018
CPSC 366 Intensive Algorithms — Spring/2018

CPSC 365 Design and Analysis of Algorithms — Spring/2017
Yale University

Community

Student Volunteer — 06/2019
PLDI 2019

Department Student Advisory Committee — Fall/2017, Spring/2018
Yale University Computer Science Department

Student Volunteer — 07/2017
CAV 2017

Software

G2 Symbolic Execution Engine for Haskell
`https://github.com/BillHallahan/G2`

Simple-R Symbolic Execution Engine for R
`https://github.com/AntonXue/simple-r`

Multi-Terminal Interval Decision Diagrams
`https://github.com/dzufferey/mtidd`

Technical

Programming Languages
Haskell, C, C++, Python, Java, R, Scala, SMTLIB, LaTeX