Harrison Goldstein

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harrisongoldste.in

Publications

Papers

Do Judge a Test by Its Cover: Combining Combinatorial and Property Based Testing

ESOP 2021

Programming Language Support for Natural Language Interaction

SysML 2018

Other

Ungenerators (Poster)

ICFP 2021

Conferences after COVID: An Early-Career Perspective

SIGPLAN PL Perspectives

Algebraic Combinatorial Testing (Poster)

POPL 2020

Leadership

Editor in Chief (Ongoing) Social Chair **AV** Coordinator Research Mentor Mentor

PLClub Blog POPL 2021 ICFP 2020 DeepSpec REU SIGPLAN-M

Research Interests

Property-Based Testing

QuickCheck, Combinatorial Testing

Functional Programming

Monads, Continuations, Haskell

Type Systems

Refinement Types, Bidirectional Type Checking

Formal Languages

Brzozowski Derivatives, Language Models

My love for learning underpins almost everything that I do—I take every chance I can to learn and grow. I am driven, focused, and goal-oriented, and I bring those values to all of the work that I do.

In my free time I love to cook, stream TV and movies, and spend time with friends.

Please reach out via email or Twitter for references or other information.

Education

University of Pennsylvania

Present

Pursuing PhD in Computer Science

Cornell University

Fall 2014 - Spring 2019

BS in Computer Science

GPA 4.08

MEng in Computer Science GPA 4.02

Teaching

Penn CIS 552, Head TA Penn CIS 810, Head TA Cornell CS 3110, Head TA Cornell ELCP, Head TA Cornell CS 2112, TA

Fall 2020 and 2021 Spring 2021

Fall 2017 Spring 2017 Fall 2016

Work Experience

Amazon Web Services

Summer 2020

Research Intern

Expanded and formalized a model of AWS access policies that captured the full complexity of the authorization system.

Explored an embedding of the model into SMT, to be used in the Zelkova tool.

Broadway Technolgy

Software Engineer

Summer 2017 - Summer 2018

Collaborated throughout the organization on tools that streamlined Broadway's operations.

Led a number of projects, as an internal consultant, project manager, and developer.

SIG, LLP

Technology Intern

Summer 2016

Last Second Beach, LLC

Fall 2015 - Spring 2016

Cheif Technology Officer

Honors and Awards

Certification in

Engineering Leadership

Cornell ELCP

1St Place

Business Plan Competition

Cornell SHA

Eagle Scout

Boy Scouts of America