

NOAM ZILBERSTEIN

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EDUCATION

University of Pennsylvania

Bachelor of Science in Engineering, *summa cum laude*
Department of Computer and Information Science

August 2011 - May 2015

Overall GPA: 3.93

HONORS AND AWARDS

Computer Science Academic Award

University of Pennsylvania

This award recognizes a student who has excelled in Computer Science coursework well beyond the requirement for the degree.

May 2015

Computer and Information Science Senior Design Third Prize

University of Pennsylvania

This award is given by the faculty of Computer and Information Science to the graduating senior who, in the conduct of his or her senior project, has demonstrated originality and creativity in the application of engineering principles to the solution of a computer science problem. Awarded to my team for our project entitled *Formal Verification of System FC using the Coq Proof Assistant* advised by Stephanie Weirich and Richard Eisenberg.

May 2015

PUBLICATIONS

- [1] Noam Zilberstein. Eliminating Bugs with Dependent Haskell. *In Proceedings of the 13th ACM SIGPLAN International Haskell Symposium (Haskell '20), August 27, 2020.*
<https://doi.org/10.1145/3406088.3409020>

WORK EXPERIENCE

Staff Software Engineer

Facebook Programming Languages and Runtimes

May 2020 - Present

- Led a team of 7 engineers and research scientists to support privacy as a first class construct in the Hack programming language
- Worked on the implementation of Information Flow Control for the Hack programming language

Software Engineer/Senior Engineer/Staff Engineer

Facebook Integrity Infrastructure

July 2015 - May 2020

- Built large scale Haskell systems using dependent types
- Led an initiative to consolidate Rule Engine infrastructure at Facebook

TEACHING

Course Instructor, CIS 194: Introduction to Haskell

January 2015 - May 2015

University of Pennsylvania

Created lesson plans and homework assignments and supervised two teaching assistants.

<https://www.seas.upenn.edu/~cis194/spring15/>

Teaching Assistant

August 2012 - May 2015

University of Pennsylvania

Held recitations and office hours. Graded homework and exams.

- **CIS 320: Algorithms**
Spring 2015
- **CIS 121: Programming Languages and Techniques II: Algorithms and Data Structures**
Fall 2014
- **CIS 371: Computer Organization and Design**
Spring 2014
- **CIS 261: Discrete Probability, Stochastic Processes, and Statistical Inference**
Fall 2013
- **CIS 120: Programming Languages and Techniques I**
Fall 2012, Spring 2013

ACADEMIC ACTIVITIES

- **Information Flow Control Reading Group**, *Facebook*, 2020
- **Student Volunteer**, *55th Annual Symposium on Foundations of Computer Science (FOCS'14)*
- **Types and Programming Languages Reading Group**, *University of Pennsylvania*, 2014

OPEN SOURCE PROJECTS

- **The Hack Programming Language**, A typechecker and compiler for Hack, Facebook's language for server side programming
<https://github.com/facebook/hhvm>
- **Haxl**, A Haskell library for automatic, concurrent data fetching
<https://github.com/facebook/Haxl>