Jason Gross

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PRESENT ADDRESS
258 Prospect Street, Apt # 1L
Cambridge, MA 02139

PERMANENT ADDRESS
126 Hayrick Lane
Commack, NY 11725

EDUCATION

Massachusetts Institute of Technology, Cambridge, MA
Began Doctorate of Philosophy in Computer Science in September 2013
Current G.P.A. 4.8/5.0

Bachelor of Science in Mathematics and Physics, June 2013
G.P.A. 4.6/5.0

Relevant Coursework: Security, Program Analysis, Performance Engineering of Software, Statistical Physics, Quantum, Topology, Analysis, Waves & Vibrations, Special Relativity, Algebra

EXPERIENCE

MIT   September 2013–Present
Researcher   Cambridge, MA
- Researching program synthesis as it applies to the Bedrock compiler, with Adam Chlipala
- Collaboratively working on one of the world's first algorithm-level-optimizing compilers

MIT   September 2015–December 2015
TA for 6.172 (Performance Engineering)   Cambridge, MA
- Created and led recitations, taught students, and helped run class
- Analyzed and explained assembly output of `gcc -O3` to teach vectorization

Microsoft Research   June 2014–August 2014
Intern   Cambridge, United Kingdom
- Created a language for specifying input/output behavior of x86 assembly programs with Andrew Kennedy and Nick Benton; Verified the I/O behavior of a number of simple programs

MIT CSAIL   November 2009–September 2011
Researcher   Cambridge, MA
- Co-author of "One shot learning of simple visual concepts".

COMPUTER SKILLS

- Proficient skills – Coq, TEX macro language, Mathematica, git, Python, JavaScript, BASIC
- Working knowledge – LaTeX, C, C++, Agda, Haskell, Scheme, HTML, CSS, Perl, Java
- Basic knowledge – Matlab, OCaml, Idris, Ruby, Ur/Web, x86 Assembly

HONORS AND AWARDS

- Collection of 12 original K'NEX synagogue models exhibited in various museums (2004–2008)

EXTRACURRICULAR ACTIVITIES

- Co-maintainer of the homotopy type theory Coq repository (`HoTT/HoTT` on GitHub)
- Commiter to the SIPB BarnOwl project (`http://barnowl.mit.edu`)
- SIPB (Student Information and Processing Board) Member
- Was project leader for MITeX, an online interface for composing LaTeX
- Canada/USA Mathcamp (Summers 2006–2009)