LEAH HANSON

 $leah.a.hanson@gmail.com \quad \bullet \quad blog.leahhanson.us \quad \bullet \quad github.com/astrieanna$

ECHNICAL EXPERIENCE			
Participant, Recurse Center	New York City Aug 2016 - Nov 2016		
Participated in a 12 week self-directed programming workshop Solved Project Rosalind problems Explored details of the Haiku operating system Paired on optimizing the performance of a Go game implement Paired on understanding and parsing bplists Implemented the Raft consensus algorithm Worked through parts of a Statics and a Linear Algebra textbe And 2 more weeks to go!	$ \begin{array}{c} \operatorname{Gc} \\ \operatorname{C++} \\ \operatorname{tation} \\ \operatorname{C} \\ \operatorname{Julia} \end{array} $		
Software Engineer, Stripe Rec	dmond, WA (remote) July 2015 – July 2016		
Refactored and updated legacy deployment infrastructure Wrote indexers for internal documentation search	Ruby Elastic Search, Ruby		
Software Engineer, Google	${\bf Madison,WI Feb2014-Feb2015}$		
Made networks go fast	C++		
Research Assistant, Julia Language Project	MIT May $2013 - \operatorname{Aug} 2013$		
Wrote TypeCheck.jl, a package for type-based static analysis of Documented Julia webstack and interesting built-in APIs	of Julia code Julia Markdown		
Participant, Recurse Center	New York City Feb 2013 – May 2013		
Participated in a 12 week self-directed programming workshop Built a Dropbox client for the Haiku operating system Wrote a WebSockets implementation (WebSockets.jl) Wrote a multi-threaded program and a tutorial about the feat	C++, Python Julia		
Independent Study with Prof. Peter Froelich	Johns Hopkins Sep 2012 – Dec 2012		
Wrote a course management web application Has Worked with HappStack, HSP templates, HDBC, and Twitter Bootstrap Haskell,			
Intern, Jane Street Capital	New York City Jun 2012 – Aug 2012		
Built internal tools: WebSockets server library, real-time charting library Wrote an automated bot to compete in an internal trading tournament OCaml			
Research Project with Prof. Scott Smith	Johns Hopkins Feb 2012 – May 2012		
Wrote an interpreter for an experimental language Wrote a lexer and parser using Parsec	Haskell Haskell		
Intern, Fog Creek Software	New York City May 2011 - Aug 2011		
Implemented new features for Kiln, including Image Diffs	C#, Python, Javascript		
Statistical NLP Research Project with Prof. Mark Dr	edze Johns Hopkins Feb 2011 – May 2011		
Wrote scripts to convert text files to SVM light format using a bag of words model Wrote final paper describing methods and results LaTex			
Research Experience for Undergraduates	Harvey Mudd May 2010 – Aug 2010		
Implemented heap analysis tools, including code to talk to a 3D graph visualization engine Python, Ubigraph			
DUCATION			

ED

M.S.E., Computer Science

Johns Hopkins Sep 2011 – Dec 2013

 $\diamond\,$ GPA: 3.54, Project: Type-related Static Analysis for the Julia Programming Language

B.S., Computer Science

 ${\bf Johns\ Hopkins\ Sep\ 2008-Dec\ 2012}$

 \diamond GPA: 3.46, Dean's List 4 semesters

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SPEAKING EXPERIENCE

Portland NYC Poznan, Poland	Jun 2016 Jun 2016 Jul 2015
London, England Australia St. Louis	Nov 2015 Dec 2014 Sep 2014
Chicago Madison Chicago New York City St. Louis Chicago New York City Baltimore New York City	Nov 2014 May 2014 Feb 2014 Oct 2013 Sep 2013 Jul 2013 Jun 2013 May 2013 May 2013
New York City Boston Chicago San Francisco	Oct 2013 Jun 2015 Jun 2014 May 2013
	NYC Poznan, Poland London, England Australia St. Louis Chicago Madison Chicago New York City St. Louis Chicago New York City Baltimore New York City New York City Boston Chicago

WRITING EXPERIENCE

Learning Julia (with Spencer Russell)

Not Yet Published

An introduction to Julia, focused on learning through examples of complete programs.

500 Lines or Less: Static Analysis

October 2015

http://aosabook.org/en/500L/static-analysis.html

A chapter introducing static analysis, using 500 lines of code from Type Check.jl.

Learn Julia in Y Minutes

July 2013

http://learnxinyminutes.com/docs/julia/

This is a brief introduction to Julia focusing on the syntax and a brief introduction to the type system.