Sam Boosalis

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EDUCATION	**Brown University**	Providence, Rhode Island, USA
	B. A. Computer Science	Graduation Date: June 2013

ADVANCED
COURSES

Compiler Independent Study
Programming Languages
Computational Linguistics
Computer Systems Security
Computer Vision
Machine Learning
Graduate Machine Learning

PROJECTS

Compiler
Wrote a compiler in Haskell from an ML subset to MIPS assembly.
- Strongly, statically typed source language.
- Supports both functional and imperative programming.
- Features lists, records, recursive types, and recursive functions.

Domain Specific Language
Wrote a logic-programming DSL in Racket
- with Prolog-style backtracking and logic variables
- using LISP macros and continuations

/etc
- Interpreter, Type Inference, Garbage Collector
- French-English Translation, Part of Speech Tagging, Pronoun Resolution
- Hybrid Images, Boundary Detection, Scene Classification, Face Detection
- Expectation Maximization, Markov Chain Monte Carlo, Hidden Markov Model, Gibbs Sampling

WORK
EXPERIENCE

Bootstrap   January 2010 — May 2010
Taught functional programming to middle school students.

Developer at hearo.fm   November 2011 — March 2011
Implemented instant search / infinite scrolling at hearo.fm, a social network with music distribution.

Lead Engineer at hearo.fm   March 2011 — Now
Orchestrated public alpha launch. Instituted build process, analytics, and selenium testing. Managed server configuration and scaling. Involved in many design decisions at the heart of hearo (researching and convincing).

Software Development Engineer Intern at Microsoft Bing   May 2011 — August 2011
Modeled, designed, implemented, tested, evaluated, and maintained Smart Politeness, which updates how much bing crawls a host as a function of blockrate (from manually and biweekly to automatically and daily). Worked with terabytes of data and realtime production code. Resulted in many millions more successful downloads for bing, every day.

LANGUAGES

Fluent in
Haskell, Python, LISP, Java, Greek, Spanish, French.

Familiar with
MATLAB, Javascript, JQuery, Django, C++, C#, Scope, Ruby, Rails, HTML, CSS, SQL, Prolog, LaTeX, bash, MIPS, Italian, German, Russian.