

# Sam Boosalis

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EDUCATION	<b>Brown University</b> <b>B. A. Computer Science</b>	Providence, Rhode Island, USA Graduation Date: June 2013
ADVANCED COURSES	<i>Compiler Independent Study</i> <i>Programming Languages</i> <i>Computational Linguistics</i> <i>Computer Systems Security</i> <i>Computer Vision</i> <i>Machine Learning</i> <i>Graduate Machine Learning</i>	
PROJECTS	<b>Compiler</b> Wrote a compiler in Haskell from an ML subset to MIPS assembly. <ul style="list-style-type: none"><li>• Strongly, statically typed source language.</li><li>• Supports both functional and imperative programming.</li><li>• Features lists, records, recursive types, and recursive functions.</li></ul> <b>Domain Specific Language</b> Wrote a logic-programming DSL in Racket <ul style="list-style-type: none"><li>• with Prolog-style backtracking and logic variables</li><li>• using LISP macros and continuations</li></ul> <i>/etc</i> <ul style="list-style-type: none"><li>• Interpreter, Type Inference, Garbage Collector</li><li>• French-English Translation, Part of Speech Tagging, Pronoun Resolution</li><li>• Hybrid Images, Boundary Detection, Scene Classification, Face Detection</li><li>• Expectation Maximization, Markov Chain Monte Carlo, Hidden Markov Model, Gibbs Sampling</li></ul>	
WORK EXPERIENCE	<b>Bootstrap</b> Taught functional programming to middle school students.	January 2010 – May 2010
	<b>Developer at hearo.fm</b> Implemented instant search / infinite scrolling at hearo.fm, a social network with music distribution.	November 2011 – March 2011
	<b>Lead Engineer at hearo.fm</b> 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).	March 2011 – Now
	<b>Software Development Engineer Intern at Microsoft Bing</b> 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.	May 2011 – August 2011
LANGUAGES	<b>Fluent in</b> Haskell, Python, LISP, Java, Greek, Spanish, French.  <b>Familiar with</b> MATLAB, Javascript, JQuery, Django, C++, C#, Scope, Ruby, Rails, HTML, CSS, SQL, Prolog, $\LaTeX$ , bash, MIPS, Italian, German, Russian.	