

# Andy Hanson

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Please prefer andy-hanson.me/resume

skill	<i>proficient in</i>	javascript (typescript, coffeescript, babel), c#, python	
	<i>familiar with</i>	java (scala), ruby, c++, c, glsl, html (jade), css (stylus)	
	<i>tools</i>	git, github, gulp, require.js, browserify, npm, bower	
	<i>practices</i>	testing, linting, documenting, small & pure funtions, refactoring, modularity	
work	<b>FaunaDB</b> , San Francisco, CA	<i>Associate Software Engineer</i>	Jun 2015-Jan 2016
	Worked on clients for a new database for python, ruby, javascript, and c#. Clients include REST client, error handling, (de)serialization, query language, and ORM, with tests and documentation. C#and javascript clients are asynchronous. Worked on the website, a rails application built with FaunaDB. Work was mostly server-side.		
	<b>IntentSoft</b> , Bellevue, WA	<i>Software Analyst and Developer</i>	Jul 2014-Mar 2015
	Worked on a layout system. System takes as input a tree of content nodes (analogous to DOM nodes) and outputs a tree of graphical nodes (which have exact locations). Rewrote part of system that queried content locations to be closer to purely functional. Wrote tests, discovered and fixed bugs, and participated in design and implementation of new features.		
school	<b>Rensselaer Polytechnic Institute</b> , Troy, NY		GPA 3.94/4.0    2012-2014
	Pending Bachelor of Science in Computer Science.		
	<b>Digipen Institute of Technology</b> , Redmond, WA		GPA 3.49/4.0    2011-2012
	Made one game in ProjectFUN on a team of 3. Responsible for program, sound, and some graphics.		
code	<b>mason</b>	programming language	2014-
	New language compiling to javascript. Several projects have been written in it already.		
	<b>esast</b>	javascript AST	2015-
	Javascript AST, made type-safe with typescript. Renders to javascript code with source maps. Used by Mason.		
	<b>dum</b>	build system	2015-
	Simple build system: translates files from e.g. jade to html, or coffeescript to javascript. No build script necessary. Instead of specialized plugins, uses jstransformers. Completely asynchronous. Written in Mason.		
	<b>painterly rendering</b>	webgl rendering experiment	spring 2014
	Team of 2. Real-time webgl, with HTML UI to modify renderer properties. Renders a 3D particle system of brush stroke sprites which orient and curve along edges of objects and around centers of light.		
	<b>logic online</b>	online logic practice	spring 2014
	Deduction language (shared by server and client) and exercises to learn it. Inference and equality rules are asserted or proved within the language. Exercises are stored as YAML files.		
	<b>polo jeans</b>	webgl 2D game engine	fall 2013
	Team of 4. Lead meetings; worked on architecture, buld system, and media; wrote GameObject scripting, including multiple inheritance.		
	<b>LEIA</b>	natural language dependency grammar parser	fall 2013
	Team of 6. A restaurant-recommending robot. Users write English sentences to ask for information about local food. Wrote text to dependency grammar part of pipeline. Wrote onomasticon and lexicon as JSON data.		
	<b>ghost control</b>	control systems research video game	summer 2013
	Worked for control systems researchers. Web game that tracks user and saves/loads ghost data from server.		
	<b>wahoo</b>	scala 2D game engine	fall 2012
	Features: dynamic lighting, loose quadtree collision detection, and type-based (via reflection), state-based GameObject scripting.		
	<b>games</b>		2009-2013
	Web games and desktop-based games. One game in OpenGL, one in OGRE, both with PyGame. Unfinished game written with Wahoo.		