

OBJECTIVE	Senior in Computer Science looking for full time or internship opportunities.	
EDUCATION	<i>Bachelor of Science</i> , Computer Science Purdue University, West Lafayette, IN December 2014	
COMPUTER SKILLS	<i>Languages & Software</i> : Java, C, C++, Git, Python, HTML, PHP, MySQL, x86-64 Assembly, MIPS, Objective-C, ANTLR, Node.js, JavaScript, Ruby, Ruby on Rails, R <i>Platforms</i> : Windows, Unix, MacOS, Android, iOS, Pebble <i>Other Skills</i> : Network Design	
WORK EXPERIENCE	<i>Research Assistant</i>	September 2014 - December 2014
	Computer Science Department, Purdue University	
	<ul style="list-style-type: none">• Worked under Professor Antony Hosking on MicroVM.• Contributed towards a method to allow all threads created by the executing program on the VM to be user-level.• Project also aimed to allow access to Futex primitives across VM in user space despite multiple context switches.	
	<i>Research Assistant</i>	May 2013 - October 2013
	Computer Science Department, Purdue University	
	<ul style="list-style-type: none">• Implemented the Boids Algorithm in Standard ML as a contribution to the MLton project• Wrote a version for Multi-MLton that supports multithreading	
	<i>Applications Engineering Intern</i>	May 2012 - Aug 2012
	Broadcom Corporation, Santa Clara, CA	
	<ul style="list-style-type: none">• Wrote debugging, testing, and developing tools in Python to fulfill a range of applications including redundant evaluation board power cycling and error log parsing.• Debugged and wrote a patch preventing a XAUI MDIO-related problem.• Assisted in benchmarking operations under various board conditions and silicon conductor types.	
PROJECTS	<i>Paybble</i>	
	<ul style="list-style-type: none">• Developed a Pebble application with an iOS companion app and web-based front end that lets people pay each other using only their Pebble.• Worked on Node.js server to separately parse information sent by both iOS and web sources, combining MongoDB, Twilio, and Venmo API's.• Won prize from Paypal at Boilermake for best use of the Venmo API.	
	<i>Jot</i>	
	<ul style="list-style-type: none">• Co-developed a platform for people to crowd-source authoring of books for MHacks.• Built site using a combination of HTML, CSS, Javascript, Firebase, and Parse.• Won prize from Firebase for best use of their API	
	<i>Java</i>	
	<ul style="list-style-type: none">• Wrote a functional MiniJava compiler using Java and ANTLR that assembled into MIPS• Broken down into Lexer, Parser Generator, SSA Generator, Type Checker, Register Allocator, and Code Generator.	
	<i>C, C++</i>	
	<ul style="list-style-type: none">• Implemented an IP fragmenter in XINU that supports fragmentation despite variable MTU values.• Implemented parts of an operating system (XINU) including process message passing, process scheduler and a filesystem.	
	<i>Senior Design</i>	
	<ul style="list-style-type: none">• Led software development and designed logic for an autonomous robotic fish• Optimized software on controller to lower response time, allowing for the use of a lower power microcontroller without a need for multithreading.• Features implemented on fish include obstacle avoidance and ability to control instability in roll, pitch, and yaw.	