

Ross M. Bayer

CONTACT INFORMATION	715 Park Point Dr. Unit 3 Rochester, NY 14623 (757) 604-4736	ross.m.bayer@gmail.com github.com/Rostepher linkedin.com/in/Rostepher
OBJECTIVE	Seeking a 3 or 6 month co-op or internship beginning in either Summer 2015 or Fall 2015.	
EDUCATION	Rochester Institute of Technology Major: B.S. Computer Science Expected Graduation: May 2017	August 2012 - Present
TECHNICAL SKILLS	Proficient Languages: C, Java, Python, Ruby, Rust Farmiliar Languages: Haskell, JavaScript, Scheme, Standard ML Operating Systems: Linux (Arch and Debian based), Mac OS X Tools: Git, L ^A T _E X, Make, Regular Expressions, Vim	
EXPERIENCE	Rochester Institute of Technology <i>Research Assistant</i>	February 2015 - Present https://mlton.org
	Currently working as a research assistant for Professor Fluet on the Standard ML , whole-program optimizing compiler MLton ; developing a general-purpose annotation system for attaching arbitrary information to nodes in the Abstract Syntax Tree (AST) that the compiler can utilize.	
	RockTenn <i>IT Intern</i>	July 2014 - August 2014 https://rocktenn.com
	Worked on a JavaScript extension for the BI tool QlikView that aggregated valid geolocation data from the database and mapped points of interest and other relevant information on an interactive map using the popular OpenLayers library and Open Street Maps . Also wrote Python scripts to geocode addresses and store the results in the database using the pyodbc module and SQL.	
PERSONAL PROJECTS	brainfuck <i>Optimizing Brainfuck Interpreter</i>	December 2014 - Present https://github.com/Rostepher/brainfuck
	An interpreter for the esoteric, turing complete programming language Brainfuck written in Rust . It utilizes a number of optimization strategies to exponentially decrease the number of operations and subsequently the execution time of Brainfuck programs. It also supports emitting optimized internal Intermediate Representation (IR), optimized C code, or optimized Rust code.	
	libstrcmp <i>String Distance Metric C Library</i>	June 2014 - December 2014 https://github.com/Rostepher/libstrcmp
	An optimized C library dedicated to fast implementations of various string distance metrics , including the Levenshtein distance and the Jaro-Winkler distance , as well as other phonetic metrics used in natural language processing and fuzzy string matching .	
	mget <i>Manga Scraping Ruby Utility</i>	June 2014 - Present https://github.com/Rostepher/mget
	A Ruby utility to scrape manga chapters from the multiple online sources, using the ruby gem Nokogiri for HTML parsing, and then package the images in a cbz (comic book zip) archive for easy reading on the go.	
EXTRACURRICULAR CLUBS ACTIVITIES	FOSS@MAGIC <i>Active Member</i>	https://magic.rit.edu/foss
	A group dedicated to Free and Open Source Software (FOSS) located inside the MAGIC Center, formerly the Innovation Center, that sponsors numerous projects, hackathons and meetings for like-minded students.	
	Computer Science House (CSH) <i>Alumni Memeber</i>	https://csh.rit.edu
	A special interest house with a focus on project-based education in the field of computer science and its related sub-fields.	