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 bitbucket.org/Rostepher linkedin.com/in/Rostepher

OBJECTIVE

Seeking a 6 month co-op or internship beginning May 2015 until December 2015.

EDUCATION

Rochester Institute of Technology - Rochester, NY   August 2012 - Present
Major: B.S. Computer Science
Expected Graduation: May 2017
Core Courses
- Mechanics of Programming
- Concepts of Computer Systems
- Introduction to Computer Science Theory
- Programming Language Concepts
- Compiler Construction

TECHNICAL SKILLS

Languages: C, Java, Python, Ruby, Rust
Exposed Languages: Haskell, Javascript, Scheme, SQL, Standard ML
Operating Systems: Arch Linux, Debian-based Linux distributions, Mac OSX
Tools: Git, LaTeX, Vi/Vim

PERSONAL PROJECTS

brainfuck   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   June 2014 - December 2014
https://github.com/Rostepher/libstrcmp

An optimized C library dedicated to fast implementations of various string distance metric, including the Levenshtein distance and the Jaro-Winkler distance, as well as other phonetic metrics used in natural language processing and fuzzy string matching. It uses the Ruby Rake utility for building the shared object file and the Rspec testing framework and custom Ruby FFI bindings for unit tests.

mget   June 2014 - Present
https://github.com/Rostepher/mget

A Ruby script that scrapes manga issues from the multiple sources on the web, using the ruby gem Nokogiri for HTML parsing and then packages the images in cbz (comic book zip) archives for easy reading on the go.

EXPERIENCE

RockTenn   July 2014 - August 2014
IT Intern   https://www.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.

**EXTRACURRICULAR
CLUBS ACTIVITIES**

Free and Open Source Software Box (FOSSBox) - Active member http://magic.rit.edu/foss/
A group dedicated to Free and Open Source Software (FOSS) located inside the MAGIC@RIT center, that sponsors numerous projects, hackathons and meetups for like-minded students.

Computer Science House (CSH) - Alumni member   https://www.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.