Ross M. Bayer

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OBJECTIVE

Seeking 6 month co-op employment starting May 2015 until December 2015.

EDUCATION

Rochester Institute of Technology - Rochester, NY   August 2012 - Present
Major: B.S. Computer Science
Expected Graduation: May 2017
Software Courses
- Mechanics of Programming
- Concepts of Computer Systems
- 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

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. 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 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 bindings for unit tests.

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

A Ruby script that scrapes manga issues from the web using the ruby gem Nokogiri and 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 relvant information on an interactive map using the OpenLayers library. Also wrote python scripts to geocode addresses and store the results in the database using the pyodbc module and SQL.

EXTRACURRICULAR CLUBS ACTIVITIES

FOSSBox(Free Open Source Software Box) - Active member   http://magic.rit.edu/foss/
A dedicated group that is part of the MAGIC center at RIT, dedicated to Free and Open Source Software, that sponsors numerous projects, hackathons and meetups for 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.