

EDUCATION	<p>Rochester Institute of Technology Major: B.S./M.S. Computer Science Expected Graduation: December 2018 GPA: 3.2</p>	August 2012 - Present
TECHNICAL SKILLS	<p>Proficient Languages: C, Go, Java, Python, Ruby, Standard ML Familiar Languages: Haskell, JavaScript, Prolog, Rust, Scheme Operating Systems: Linux (Arch and Debian based), Mac OS X Tools: Git, L^AT_EX, Make, CMake, Regular Expressions, Vim</p>	
EXPERIENCE	<p>Rochester Institute of Technology <i>Reserach Assistant</i></p> <p>Re-implementing MLton's build system to support modern architectures and techniques and improving overall build quality. Switching from GNU Make and a small number of handwritten build scripts to a CMake build system.</p> <p>Hudl <i>Software Development Intern</i></p> <p>Primary engineer on an internal mission-critical application in the alerting pipeline. Focused on refactoring the application to be more reliable, stable, testable and overall maintainable. Implemented a handful of new features for the project that were targeted at making the web interface more friendly and then gathered user feedback to itterate on the design. Migrated the PostgreSQL database to be more consistent with SQL best practices. Creating two open-source Go packages that wrap PagerDuty and Postmark's RESTful APIs.</p> <p>Rochester Institute of Technology <i>Research Assistant</i></p> <p>Learning about the general structure and implementation strategies of compilers. Designed a general-purpose annotation system for the MLton compiler.</p>	<p>February 2016 - Present https://mlton.org</p> <p>June 2015 - December 2015 https://hudl.com</p> <p>February 2015 - May 2015 https://mlton.org</p>
PERSONAL PROJECTS	<p>adhoc-prologmorphism <i>Independent Study on Adhoc-Polymorphism</i></p> <p>A collection of documents and interpreters from my independent study on Adhoc-Polymorphism in Hindley-Milner type systems.</p> <p>bfi <i>Optimizing Brainf*** Interpreter</i></p> <p>An interpreter for the esoteric, turing complete programming language Brainf*** written in Rust, utilizing a number of optimization strategies to exponentially decrease the number of operations and subsequently the execution time of Brainf*** programs.</p> <p>libstrcmp <i>String Distance Metric C Library</i></p> <p>An optimized C library dedicated to fast implementations of various string distance and phonetic metrics used in natural language processing and fuzzy string matching.</p> <p>mget <i>Manga Scraping Ruby Utility</i></p> <p>A Ruby utility to scrape manga chapters from online sources and then packages each chapter in a cbz (comic book zip) archive.</p>	<p>February 2016 - Present https://github.com/Rostepher/adhoc-prologmorphism</p> <p>December 2014 - Present https://github.com/Rostepher/bfi</p> <p>June 2014 - December 2014 https://github.com/Rostepher/libstrcmp</p> <p>June 2014 https://github.com/Rostepher/mget</p>
EXTRACURRICULAR CLUBS & ACTIVITIES	<p>Computer Science House (CSH) <i>Alumni Memeber</i></p> <p>A special interest house with a focus on project-based education in the field of computer science and its related sub-fields.</p>	<p>https://csh.rit.edu</p>