

William M. Dignazio

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willdignazio.com

Education

- **Rochester Institute of Technology - New York**
 - Undergraduate Computer Science Student
 - Expected Graduation Date: June 2016
 - Core Courses:
 - * Computer Organization
 - * Computer Science Theory
 - * Concepts of Parallel & Distributed Systems
 - * Data Communications

rit.edu

Aug. 2011 - Present

Skills

- Languages: Assembly (x86, MIPS), C, Java, Julia, Python
- Tools: Autotools, CMake/Make, Emacs, Git, LaTeX, Subversion, Vi/Vim
- Concepts: Lockless Design, Parallel & Distributed Systems, Systems Programming
- Platforms: Hadoop, OpenMP

Professional Experience

- **RIT**
 - Research Assistant
 - Assistant to Distributed Systems professors at RIT
 - Research into performance implications of block replication
 - Implementation as a drop in replacement of HDFS
 - Independent work and management accompanying studies
- **Exablox**
 - File System Performance Intern
 - Tuned and optimized our object-based file system
 - Researched and worked on lockless hash table implementation
 - Worked with various FUSE based mechanisms and third party libraries
 - Developed Octeon hardware interfaces for our file system
 - Rendered statistics and generated benchmark marketing data
- **Information and Technology Services**
 - Infrastructure Engineer
 - Handled software maintenance and feature tickets for in house applications
 - Dealt with critical data, and university requirements
- **Newstex**
 - Web Programmer
 - Worked with cloud applications, including Boto and Botoweb.
 - Designed and implemented data mining utilities for LinkedIn, Google Plus, and Twitter.

github.com/WillDignazio/hrfs

October 2014 - March 2015

exablox.com

June 2013 - January 2014

rit.edu/its

June 2012 - January 2013

newstex.com

March - May 2012

Online Presence

LinkedIn: [linkedin.com/in/slackwill](https://www.linkedin.com/in/slackwill)

Github: github.com/WillDignazio

Blog: willdignazio.com

Twitter: twitter.com/WillDignazio

Projects

Available on github.com/WillDignazio.

- **SOS (Sandbox Operating System)** C
 - Open Source Kernel: Formally called "Foundation", it is a microkernel built off the specs provided by the Intel x86 Architecture manuals, and various online wikis.
 - Most hardware will support the system, being that its native architecture is x86. Recent design changes that have yet to be implemented allow portability to other architectures, such as ARM.
- **Atlas** Assembly
 - Intel Architecture bootstrap binary, boot arbitrary C or C++ code linked against it. Allows for quick system development, and simple x86 embedded device coding.
 - Supports 16 and 32 bit operation, features simple graphics library for debugging and standard output.
- **slackbot** C
 - A virtual bot designed to administrate our IRC channels, giving the proper users automatic administrative access, and guests restricted access.
 - Integrates with LDAP to identify users, as well as connects and operates over SSL for secure authentication and data gathering.
- **asmblog** Assembly
 - Blog platform written in NASM (Netwide Assembly, designed for use on 64-bit x86 operating systems.)
 - Uses FCGI and custom routines to serve web content, can be used in tandem with any web server, my server hosts a build of asmblog with the NGINX web server.
- **PAGEFAULT** Printed Content
 - Floor research and development journal, focusing on member project development and design.
 - Posted on a bi-weekly basis, with regular submissions, averaging 3 posts per release.