William M. Dignazio

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http://slackwill.com

Available for Cooperative Study Summer 2014

Education

- **Rochester Institute of Technology - New York**   rit.edu
  Undergraduate Computer Science Student   Aug. 2011 - Present
  - Expected Graduation Date: June 2016
  - Core Courses: Computer Science[1-4], FOSS (Free & Open Source Software), Computer Organization, Software Engineering

Skills

Operating Systems:

- Linux (Gentoo, Arch, Slackware, Ubuntu, Fedora, Debian)
- Mac OS X
- Windows (XP, Vista, 7)

Programming Languages:

- Proficient in: C, C++, Assembly (x86, MIPS), Python, Java, Makefile, Git
- Familiar with: LaTex, Bash, GNU Autotools, SVN

Professional Experience

- **Exablox**   exablox.com
  File System Performance Intern   June 2013 - Present
  - Tuned and optimized our object-based file system
  - Developed tools and internal file system checks for performance diagnostics
  - 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**   RIT: rit.edu/its
  Infrastructure Engineer   June 2012 - January 2013
  - Handled software maintenance and feature tickets for in house applications
  - Worked in both an academic and business environment, supporting both the student management system, as well as general business data management
  - Wrote portions of, and maintained, both front and backend code for our student management system

- **Newstex**   newstex.com
  Web Programmer   March - May 2012
  - Worked with cloud applications, including Boto and Botoweb.
  - Designed and implemented data mining utilities for LinkedIn, Google Plus, and Twitter.

- **Computer Science House:**   csh.rit.edu
  Systems Administrator   Active Member
  - Operations and Communications Director: responsible for running system administrator meetings, being an active role in the CSH EBoard (Elected Board), and assuring maintained communication with alumni and active members.
  - Major Project: Required yearly technical project evaluated by peers, must be approved by the EBoard, designed and built over a several week period.

Online Presence

LinkedIn: linkedin.com/in/slackwill
Githhub: github.com/WillDignazio
Blog: slackwill.com
Twitter: twitter.com/WillDignazio

Projects

- **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 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.