

William M. Dignazio

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<http://slackwill.com>

Available for Cooperative Study Spring 2013

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), Leadership Pathways in RIT
 - Cumulative GPA: 3.03

Professional Experience

- **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.
 - Freshman Project: Yearly project in which the Freshman organize a project, raising money for a charitable donation. Our year raised over \$600 by hosting a game tournament on campus.

Skills

Operating Systems:

- Linux (Gentoo, Arch, Slackware, Ubuntu, Fedora)
- Windows (XP, Vista, 7)

Programming Languages:

- Proficient in: C, C++, Assembly(NASM), Python, Java, Makefile scripting
- Familiar with: LaTeX, Bash scripting, Haskell

Projects

Available on github.com/WillDignazio. Private code repositories trackable at git.slackwill.com

- **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.