

Ross L. Guarino

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Objective To obtain a full time position relating to the research, design, and implementation of solutions for real world computing problems.

Experience **Google Inc** - Mountain View, CA 05/2015 - 08/2015
Software Site Reliability Engineer Intern <http://google.com>

- Built tools and infrastructure for simulation disaster situations
- Coordinated distributed infrastructure around the globe to simulate large scale disaster situations

National Technical Institute for the Deaf - Rochester, NY 06/2014 - 04/2015
Software Engineer <http://ntid.rit.edu>

- Developed a web application for use by over 300 interpreters to track and managed their activities
- Designed and implemented a RESTful API in python

Exablox - Sunnyvale, CA 06/2013 - 01/2014
Software Engineering Intern <http://exablox.com>

- Designed and implemented a system to manage test results for a continuous integration system
- Developed a Buildbot and ReviewBoard collaboration plugin in Python

Projects

MOS - Modular Operating System C, x86 Assembly

- A simple operating system which provides a generic interface for Software and Hardware resources
- Runtime kernel module routines enable systems to be reconfigured after the system boot
- Provides a simple crud interface and resource traversal for interacting with system components using URLs and requests
- Provides a UNIX file-like system for communicating between two points with a simple full-duplex channel mechanism
- Implemented a simple reaction timer game running on the operating system

Intelligent Scan Detection Go, Python

- An intelligent security system designed to detect and respond to port scans
- Uses a neural network to classify traffic data as potential scans in real time
- Generated realistic traffic data by categorizing traffic characteristics and composing fake traffic to meet specified criteria

PyShare Python

- A peer-to-peer file sharing program
- Implemented my own Diffie-Hellman key exchange and simple cryptography to secure the traffic

Smart Vending Machine System Java

- A smart vending machine system group project for a Software Engineering class
- Networked vending machine systems with an inventory management system and real time system monitoring

Education **Rochester Institute of Technology** - Rochester, NY September 2011 - Present
Major: B.S. Computer Science – GPA: 3.2 – Concentration: Economics

I love to tinker. Throughout my education I've tried to balance my desire to push my knowledge in broader directions. I pushed my education to broader subjects than what was currently being taught in classes by spending time working on personal projects and reading. I perused additional breadth in my formal education with courses including: (a) Systems Programming, (b) Database Implementations, (c) Intelligent Intrusion Detection, and (d) Secure Coding.

Technical Skills **Fluent Languages** (a) Python (b) Go (c) C (d) C++ (e) Java (f) Javascript (g) MIPS & amd64 & x86
Operating Systems (a) Linux [programming & administration] (b) Mac OS X (c) Windows
Tools (a) Make (b) Autotools (c) Docker (d) LLVM (e) Regex (f) L^AT_EX