

Objective

- Obtain full time position or cooperative study for a minimum of 3 months
- A position of Software Engineer or equivalent
- To research, design, and implement solutions for real world problems

Professional Experience

- **Google Inc.** google.com
Site Reliability Engineer - Intern May - August 2015
– Fault Injection and Disaster Recovery Simulation Tools
- **Ntid** ntid.rit.edu
Backend Software Engineer June 2014 - May 2015
– Developed a web application for use by over 300 interpreters to track and managed their activities
– Designed and implemented RESTFul API in python
- **Exablox** exablox.com
Continuous Integration - Intern June 2013 - January 2014
– Developed internal developer resource and continuous integration systems
– Designed and implemented a system to manage and test data
– Developed a Buildbot and ReviewBoard collaboration plugin in Python

Projects

Many Available on github.com/rlguarino

- **MOS - Modular Operating System** C, x86 Assembly
– A simple operating system which provided a generic interface for Software and Hardware resources
– Runtime kernel module routines enabled systems to be reconfigured after the system booted
– Provided a simple crud interface and resource traversal for interacting with system components using URLs and requests
– Provided the 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 using a process of categorizing traffic characteristics and composing fake traffic on demand
- **Unitracker** Go
– A continuous integration unit test tracking system built with go
– Designed to be used as part of a buildbot system the Unitracker will track and display the outcome of unit tests in a easy to understand manner
- **Taskboard** Go
– A web application designed to interface with Computer Science House systems to provide a way for members to pay each other to complete tasks using a special currency
- **PyShare** Python
– A peer-to-peer file sharing program
– Implemented my own Diffie-Hellman encryption 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 - New York**

rit.edu

- Undergraduate Computer Science Student
 - Expected Graduation Date: June 2016

Aug. 2011 - Present

- Core Courses:

- * Systems Programming
- * Database Implementation
- * Secure Coding
- * Computer Organization
- * Computer Science[1-4]
- * Intelligent Security Systems
- * Concepts of Parallel & Distributed Systems

Skills

- Languages: Assembly (MIPS), C, GoLang, Java, Python
- Tools: Emacs, Git, LaTeX, Subversion, Vi/Vim, Docker
- Concepts: Parallel & Distributed Systems, Systems Programming, Intelligent Systems

Online Presence

LinkedIn: www.linkedin.com/in/rlguarino/
Github: github.com/rlguarino
Blog: rlguarino.com
Twitter: twitter.com/rlguarino