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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 interactions 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 withComputer 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 Aug. 2011 - Present
  - Expected Graduation Date: June 2016
  - 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/
Githhub: github.com/rlguarino
Blog: rlguarino.com
Twitter: twitter.com/rlguarino