

Ross L. Guarino

Current: 230 Hendrix Ave, Apartment 12, West Henrietta, NY 14586

Home: 285 Crosby Ave, Kenmore, NY 14217

Phone: (716) 982-2597

rssguar@gmail.com

rlguarino.com

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 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/
Github: github.com/rlguarino
Blog: rlguarino.com
Twitter: twitter.com/rlguarino