

WarrenNelson

Software Systems Engineer

contact

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software

Windows (7, 10, server)
Linux (Debian, Arch)
Cisco IOS (L2, L3)

programming

Python (2, 3)
JVM (Java, Groovy)
C, C++
JS (ES6, JSX)
BASH/FISH
HTML5 + CSS3

technologies

Amazon Web Services
Bamboo
Boto (2, 3)
Chef
Docker
Dropwizard
ESXi
Flask
Gradle
Grails
JanusGraph
Jenkins
jQuery
Kubernetes
Maven
Nose
Packer
PXE
Pixiecore
ReactJS
Redux
SaltStack
Spock
SQLAlchemy
TinkerPop3
Troposphere
Vagrant
VSphere

objective

Seeking an career in Software Systems Engineering with a focus on infrastructure, automation, and content delivery applications

education

2014–2018 **B.S. Computer Science** Rensselaer Polytechnic Institute

Relevant course work:

- Network Programming: A
 - Course with a focus on Unix interprocess communication (IPC), the OSI model, network programming using TCP and UDP, as well as client-side and mobile programming.

experience

2017 **Amazon** Seattle, WA

Software Development Engineering Intern

Architected and implemented a graph database based solution to interrelate usage of resources inside the AWS Cloud, providing customers stronger understanding and context of resource usage inside their accounts.

2016 **Cisco** Boxborough, MA

Software Systems Engineering Intern

Architected and led development of a systems application for provisioning bare metal utilizing a microservices approach, resulting in a distributed application across multiple regional data centers with a single cloud-hosted management console for command and control of facilities.

2015–2016 **CommerceHub** Albany, NY

Software Engineering Intern

Developed a cloud-based micro-service infrastructure for measuring and maintaining drop shipping compliance between 200 retailers and 8,500 brands. Technologies include AWS, Dropwizard, Grails, Flask, ReactJS.

2014–Now **WRPI** Troy, NY

President / System Operator

As System Operator, manages server operation and maintenance for a radio station which can support up to 2000 concurrent listeners online.

As President, leads the radio station and executive committee, overseeing the various departments and upholding the club constitution.

Previously held the Chief Engineer, Program Director and Head Music Director position.

open source contributions

PXESim: Multi-threaded, multi-client PXE client simulation. Designed for load-testing PXE server solutions without the overhead of actual clients. Contributed 2200+ line changes.

libtins-TFTP: Layer 4 packet header for TFTP for use with libtins. Contributed 300+ lines.