

Lars Rocha

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RESUME

Goal – To Lead teams and serve as a technical expert for jobs requiring Advanced Network Automation Programming to reduce manual work load for deployment and maintenance of Network Architectures. I have personal experience using openconfig/grpc/ygot/netconf/xml/protobuf and other technologies for the purpose of Network Automation

Moberly LLC -- Contractor/Consultant 2018

- My role at Moberly was consulting on web page development and help with general business issues

Salesforce – Senior Developer / Network Architect and Product Owner and Scrum Master 2014 - 2017

- My role at Salesforce evolved from working with the Developer of the open source software for “Trigger” to becoming a Product Owner/Scrum Master. I worked with Jathan McCollum and was his main resource in deploying (Jenkins), writing scripts and programming in python with to deploy each version of Trigger with unit-testing to writing an IPAM system in Django to assist Engineers in maintaining and assigning IP’s to product managing a team that created tools in GO for network automation (Using RPC)
- Using Python/DJANGO created RESTful interface for IP assignment and querying (Replacing the needs for Spreadsheets) The DJANGO system was comprised of django and django-rest-framework and was a full scale application with Jenkins install. I’m very well versed in DJANGO/Python
- Modified Rancid to store credentials on disk as encrypted using a shim in the rancid config file
- Won the “Mark Benioff” CEO award with Jathan McCollum by creating a system called Kraken. It was a RabbitMQ based system for queuing work and deployed by talking to RPC Daemons running on servers in isolated Networks via a Trigger RPC Daemon. This was written in Python
- Product Owner and Scrum master of a team working on Network automation deployment. The team used GO Programming language, and GRPC for deployment of configurations.

Netflix – Senior Network Architect 2012-2014

- Developed Network Infrastructure for OpenConnect
- Created Automation Tools to seamlessly migrate from Juniper to Cisco which included converted junosscript to TCL
- Created peering tools to automate peering configuration. These tools logged into routers and we’re run easily from command line
- Installed and Maintained Zenoss for monitoring and health checking of Network
- Created angularjs interface to display all peering and interconnections and status of network ports
- Created cisco configuration scraper for configs which then deployed equivalent Juniper Configs. We could create and migrate configs as simply as running ciscotojuniper.py and then using a ruby script to login via the netconf/xml interface on cisco.

- Converted many of Richard Steenbergen's (RAS) junos scripts to TCL to be used on Cisco

TW Telecom – Sr. Network Engineer

2002-2014

- Peering Coordinator, attended most community networking events (Nanog/PeeringForum) etc to build TW Telecom's peering infrastructure
- Responsible for BGP Architecture and tooling of automating TW Telecom's peering infrastructure (Command Line Tools)
- TW Telecom went from 20% peering to over 90% during my tenure as the sole source for Peering

Verado/Firstworld – Sr. Analyst then Sr. Network Engineer

2001-2002

- Designed BGP Network – Produced Documentation and initial infrastructure
- Backbone Engineer – Maintained and Designed Backbone
- Tier III Support For Technical Issues (On Call Pager)

Skills: Python / Ruby / AngularJS / Javascript / Perl / Django / Rails / Netconf / XML

Strengths

- Can create web based platforms using Restful Interfaces with relative ease
- Fast and effective learning curve for new languages and can work with any new opensource project quickly and effeciently
- Extraordinary skill in picking up new programming languages (Programmer since 10yrs of age)
- Excellent leadership skills, successfully ran teams as a Product Owner and Scrum Master