Ryan Erickson

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Software/Systems/Cloud Development Engineer

Highly motivated software engineer addicted to heavy complexity, massive scale and microscopic details. Adept at DevOps, Services, Systems and Networking seeking Android, VR and Cloud computing opportunities.
If you love what you do then I'd love to hear from you!

Toolkit

Languages	Python, Java, Javascript, Web Suite
Frameworks	Android, Ansible, AWX, Django, Flask
Stacks	LAMP, MEAN, React/Flask, Cloud
Databases	MySQL, MongoDB, DynamoDB
Modeling	JSON, YAML, XML, Jinja, Pugjs, TextFSM
Cloud	OpenStack, Google Cloud, AWS & CDK
Linux	RHEL, Fedora, Centos Ubuntu, Raspbian, Debian, Android
Networking	Cisco (IOS/NXOS/IOS-XR), Nokia (SROS)

Education

Bachelor in Computer Science, 2017
Western Washington University, Bellingham, WA

Elective Work: Android Development, Embedded Systems, Linear Optimization, Machine Learning

Certifications

Cisco Certified Network Associate, 2020
Attained my CCNA to expand my Computer Science fundamentals while gaining invaluable skills to leverage in large scale, multi-vendor networking projects in my automation role at T-Mobile and beyond.

Experience

Systems Development Engineer; New Region Deployment**, Amazon Web Services**; November 2021 - Responsible for improving the overall process of new region and availability zone deployments. Developed a self deploying cloud native service which handled ETL-like transactions for procuring metrics data and insights.

Software Engineer, Web Development; Automation Gateway**, Itential**; January 2021 - November 2021
Created and refactored multiple network automation oriented features, enhanced and expanded software tests and pipelines, and assisted with proof of concept integrations for customer-facing teams.
- Developed low level network automation features from HTTP/REST requests to content syncing via Git.
- Leveraged connectivity libraries to increase the number of supported CLI devices by over 60.
- Reduced development pipeline runs from 15 minutes to 4, deployment from 35 minutes to 5.
- Containerized the web application for customers reducing deployment time and complexity many fold.

Associate Engineer, Systems Architecture; IP Automation**, T-Mobile**; 2018 March - January 2021
Developed and deployed a wide range of servers, web apps and networking automations for a fast paced automation team with customers ranging from core network infrastructure to transport.
- Created idempotent Ansible/Openstack deployment pipelines for RHEL/CentOS virtual machines and the internal Django/Python tool sites that laid on top of them which vastly reduced TTM for new apps.
- Partnered with principal and senior network engineers to create multi-vendor networking reports, audits, remediations, configuration updates and other "Playbooks as a Service".
- Most proud of: The successful development and deployment of scripting to safely migrate over 2,000 Cisco/ALU clients to new BGP route reflector mesh topologies (Python, TextFSM, Ansible, Tower).

Ask about my side project **BizBuddy**; BaseByDottie's web presence and invoice builder deployed on GCP!

References available upon request