

Software Engineer, Computer Scientist
spec. DevOps, Clouds, Systems and Networking

Ryan is a highly motivated engineer with a proven track record of performance in systems of heavy complexity, massive scale and critical yet microscopic details. His dream would be to find an entrepreneurial way to make millions while sleeping, but in the meantime he would love to continue developing his skills while helping you raise the bar and break records in your organization. With his Just Do It attitude, passion for constant self improvement, love of sharing information, and backgrounds as a Senior Python DevOps Engineer, Telecom Salesman, and manual laborer, you are sure to find many avenues worth exploring when we chat.

If you and your team love what you do, then I'd love to hear from you!

Toolkit

Education

Languages	Python, Javascript
Frameworks	Django, Flask, OpenAPI, Swagger, React
DevOps / IAC	Docker, Ansible, Terraform, Cloud Formation, Cloud Development Kit (CDK)
Pipelines	Gitlab CI/CD, AWS' Proprietary Pipelines
Past Stacks	LAMP, MEAN, Cloud Microservices/SAAS
Databases	MySQL, MongoDB, DynamoDB
Modeling	JSON, YAML, XML, Jinja, Pugjs, TextFSM
Clouds	OpenStack, GCP (Google), AWS
Linux	RHEL, Fedora, Centos Ubuntu, Raspbian, Debian
Networking & Configs	Cisco (IOS/NXOS/IOS-XR), Nokia (SROS)

Bachelor in Computer Science, 2017

Western Washington University, Bellingham, WA

Gained rock solid fundamentals on computing theory and networking stacks/paradigms (TCP/IP, RPCs, etc) esp. via Java, C programming and Shell development.

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

Certifications

Cisco Certified Network Associate, 2020-2023

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

Travel Break, Everywhere, USA - Lead Traveller & Dog Dad

May 2022 - Present

Engaged in developing my new normal and reflecting on my 5 year past and 5 year plan. See [RyansIP.com](https://ryansip.com) to learn more about my philosophy, travels and to see some custom immersive photography (and dog pics)!

Amazon Web Services, Seattle, WA - *Systems Development Engineer, New Region Deployment*

November 2021 - May 2022

Responsible for improving the overall process of new region and availability zone deployments (DC Flavors).

- Developed self deploying, cloud native microservices with Cloud Formation and Cloud Development Kit
- Established an Extract Transform Load Pipeline/Service for procuring build metrics data and insights
- Deployed services across varied public and private compute and networking segmentations.
- **Tenure Note:** Landed on a 100% Australian team (2hr overlap) which had no mobility options due to Covid and tenure policy. Made the tough decision to prioritize long term personal growth over AWS.

Experience (cont.)

Itential, Atlanta, GA - **Software Engineer**, *Web Development*

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.

- Aligned the end to end customer installation and usability experience, including refactors at the application and documentation levels, as well as developing containerized cust. facing deployments.
- Leveraged libraries like Netmiko to increase the number of supported CLI devices by over 60.
- Maintained, optimized dev and deployment pipelines (multi-chip, 15 to 4 minutes, 35 to 5 minutes).
- Developed low level network automation features from HTTP/REST requests to content syncing via Git.

T-Mobile, Bellevue, WA - **Software Engineer**, Systems Architecture & IP Automation

March 2018 - January 2021 (formerly **Mobile Expert**, Corporate Retail Sales, 2013 - 2018)

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 local cloud bootstrapping and deployment pipelines for the team's internal Python Network Automation tool site saving 1-2 hours of dev time per deployment (~1 day/wk).
- Partnered with principal and senior network engineers to create multi-vendor networking device reports, audits, security remediations, configuration updates and other items such as "Playbooks as a Service".
- Developed and deployed audits and scripts which safely migrated over 2,000 Cisco/ALU clients across BGP route reflector mesh topologies using Python, TextFSM, Netmiko, Ansible and AWX/Tower.

Base By Dottie LLC, Seattle, WA - **Freelance Developer**

July 2017 - July 2018

BizBuddy BaseByDottie's web presence for customers and administration portal for employees. The customer required a clean, nontechnical interface on mobile and desktop with secure login capabilities. Reduced invoicing costs from \$10/mo to \$2/mo including data store and analytics. Dropped invoice generation time from 5 min to 1 min. Deployed to Google Cloud as a containerized node/express app.