# ROY MARCELINO

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## WORK EXPERIENCE

**Dominion Voice and Data (***Network Engineer)***          July 2021 – October 2022**

*Richmond, VA*

- Primary escalation point for network hardware involving routing and switching, security hardware/services including Firewalls, cloud/branch office VPNs, and associated security services, in a variety of environments (on-prem, cloud hybrid)
  - Retained a customer by resolving a high impact issue affecting a VPN-based application that spanned multiple entities and ran over multi-vendor Firewall VPNs.
- Managed company's first foray into Devops by creating the Org. Github, code, and NOC processes necessary to solve a business need to gather metrics/configurations for sites that could not be monitored otherwise due to resource constraints (See ADTRAN script below).
- Support System Administration tech, such as server configuration, active directory, and AD integration needed to support security software (Watchguard Authpoint, etc.).

**Navy Marine Corps Intranet** *(Tier 2 Network Engineer)*          **Jan 2020 – July 2021**

*Norfolk, VA*

- Resolved enterprise-impacting outages for NMCI, the network backbone for the US Navy, and performed network upgrades remotely with technicians on-site.
  - Extensive experience with multivendor networks and WAN topologies, including VPNs, WAN accelerators, Route Reflectors, Firewalls, IPS's, AP Wireless Controllers, IPSEC, MPLS
- Developed a script that automated reports/metrics gathering for WAN circuit utilization, which saw wide-spread adoption across different shifts due to efficiency and ease-of-use.

**Old Dominion University** *(Tier 2 NOC Technician)*          **Oct 2018 – Jan 2020**

*Norfolk, VA*

- Responsible for operations/maintaining the video-processing backbone for Old Dominion University's online courses, including Cisco Webex/Collaboration software + hardware
- Abundant experience in tracking and troubleshooting time-sensitive, high-impact incidents via hands-on hardware inspection or remotely via Cisco's Telemanagement Suite, as well as promptly implementing agreed-upon COOP procedures upon failure of critical systems
- Created/updated user-friendly documentation for new internal NOC processes and customer-facing instructions for Cisco Codecs and associated devices (Crestron)

## PROJECTS

**Cloud Resume Challenge via AWS (see the resume live at rcmarceli.com)**

*github.com/Rcomarceli/resume-live*

- Following the latest Devops principles, this website utilizes a serverless architecture via AWS and Cloudflare, deployed via Terraform (IaC) and Github actions (CI/CD)
- Extensive use of various AWS Cloud services, such as: S3, Lambda, API gateway, DynamoDB, Cloudwatch, IAM, IAM SSO, and Org CLI formation.
- Utilizes Edge Computing via Cloudflare Workers to correctly handle requests going to AWS S3 buckets via another domain name.
- Tests code continually in the CI/CD pipeline with Terratest, TFLint, and Cypress. Type of tests include Static Analysis, Unit, Integration, and E2E/smoke testing.

**ADTRAN Switch Config and Metrics Gathering Script**

Created for Dominion Voice and Data (Python, Scrapli, TextFSM, Onedrive API)

- Concurrently SSHs into a range of IPs used by ADTRAN switches, uses custom-built templates to grab metrics (CPU, temperature, etc) from show commands.
- Outputs metrics for devices in a spreadsheet and uploaded config backups to OneDrive.

**Circuit Utilization Automation Script**

github.com/Rcomarceli/UtilTable

- Queries networking devices for interface utilization, aggregates formatted data into a readable table via a generated echo string appropriate for Linux servers in a secure environment.

## EDUCATION

**Old Dominion University**                                                                                 **Fall 2013 – Fall 2017**

*Bachelor of Science in Applied Mathematics*
*Norfolk, VA*

- Spring 2016: Studied abroad in Japan at Ritsumeikan Asia Pacific University
  - Enrolled into business/language classes taught solely in Japanese.

## CERTIFICATIONS / SKILLS & INTERESTS

- **Certifications**: CCNA, Security+, JLPT N1, Watchguard Firewall, AWS Cloud Practitioner
- **Skills:** Fluent in Japanese, Routing & Switching, Programming (Python, Javascript, VBScript), SQL, Network Automation, Cisco Collaboration, VPN Tunnels, Detailed Documentation
- **Interests:** Breakdancing, Esports, Perfecting Kimchi and Ramen Recipes, Game Design