

Pietro Uni Segura

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Infrastructure Engineer with 4+ years of production experience building and operating enterprise platforms. Hands-on experience in Terraform, Kubernetes, Docker, and AWS for infrastructure automation and container orchestration. Deep networking foundation (CCNA/CCNP certified, 3+ years Cisco TAC) enables rapid troubleshooting of distributed systems, design of scalable architectures, and management of high-availability environments.

Skills

Cloud & Infrastructure

- AWS (VPC, EC2, S3, CloudFront, Route53, IAM, EKS)
- Infrastructure as Code: Terraform, Ansible
- Containers & Orchestration: Kubernetes, Docker
- Systems: Linux, Windows Server

DevOps & Automation

- CI/CD: GitHub Actions, Jenkins
- Scripting: Python, Bash, PowerShell
- Version Control: Git, GitHub

Monitoring & Observability

- Splunk, Nagios, Azure Monitor, CloudWatch
- Log analysis and correlation
- Alerting and incident response

Network & Telecommunications

- Enterprise Routing & Switching: OSPF, EIGRP, BGP, STP
- Platforms: Cisco Catalyst, DNA Center
- Network Automation: Python scripting for Cisco devices
- Protocol analysis and troubleshooting

Professional Experience

Tecnida

Infrastructure Engineer

Feb 2025 – Present

- Automate Linux server management across multiple client environments using Bash scripting for deployment, configuration consistency, and security patching; reduced manual intervention and standardized system configurations
- Implement monitoring and observability solutions using Grafana dashboards, enabling proactive identification and resolution of infrastructure issues before production impact
- Deploy and manage network infrastructure automation using Cisco DNA Center (Kubernetes-based platform); coordinate automated configuration changes and zero-downtime upgrades across enterprise environments
- Maintain AWS cloud infrastructure and hybrid connectivity for client deployments, ensuring secure integration between on-premises and cloud resources

Giesecke+Devrient

Network Operations Engineer

Apr 2024 – Feb 2025

- Monitor and maintain production payment infrastructure using Azure, Splunk, Nagios, and OP5, ensuring 99.9% uptime for critical financial services
- Configure and manage Palo Alto firewalls and network security controls, implementing defense-in-depth strategies for PCI-compliant environments
- Conduct root cause analysis for network outages; document findings and implement preventive automation to reduce MTTR by ~30%
- Coordinate maintenance windows across distributed infrastructure, minimizing service disruption through careful change management and rollback planning

Cisco

Cisco TAC Engineer Tier 2 - DNA Center

Aug 2023 – Mar 2024

- Deployed and troubleshooted Kubernetes-based Cisco DNA Center installations, working with Docker containers, persistent volumes, and cluster networking for large enterprise SDN deployments
- Led software upgrade procedures for DNA Center clusters, including pre-checks, backup/restore validation, and zero-downtime migration strategies
- Debugged complex Linux system issues (CentOS-based DNAC appliances), using CLI tools, log analysis, and process management to resolve deployment failures and performance bottlenecks

Cisco TAC Engineer Tier 2 – Routing & Switching

Feb 2021 – Aug 2023

Cisco TAC Engineer Tier 1 – Routing & Switching

Jun 2020 – Feb 2021

- Provided enterprise-level support for Cisco routing & switching infrastructure (Catalyst 2K-9K switches, IE routers), covering network design, advanced troubleshooting, system migrations, and software lifecycle management
- Conducted root cause analysis for complex network issues involving routing protocols (OSPF, EIGRP, BGP), spanning-tree, VLANs, and layer 2/3 integrations
- Managed crisis escalations and customer outages with structured problem-solving approach

Earlier Experience

Dole Food Company - Senior Service Desk Engineer
Align Technology - iTero Specialist Engineer
HP Inc. - Technical Support Engineer

Nov 2017 - Jun 2020
Nov 2016 - Nov 2017
Jan 2014 - Nov 2016

Technical Projects

AWS Infrastructure for a Portfolio Site: github.com/terraform-aws-pietrouni

- Architected and deployed production-grade AWS infrastructure including multi-AZ VPC with public/private subnets, Application Load Balancers, and Auto Scaling Groups; infrastructure scales automatically based on demand with health checks and failover capabilities
- Infrastructure fully automated via Terraform with remote state management; entire stack reproducible from code and validated through destroy/rebuild cycles
- Demonstrates: Infrastructure-as-code patterns, AWS networking architecture, production-readiness design (high availability, state management, modular design)

Interactive Desktop Portfolio Website: pietrouni.com

- Built functional "web OS" mockup with window management system, terminal emulator, and file vault—demonstrates UI/UX capabilities beyond pure infrastructure work
- Tech: Vanilla JavaScript, HTML5, Tailwind CSS; features draggable/resizable windows, custom shell with command history, and Markdown-based content rendering
- Showcases full-stack thinking: from infrastructure deployment to user-facing application design

Network Automation & Infrastructure

- Developed Python scripts for Cisco devices using DNA Center to automate configuration backups, compliance validation, and bulk configuration changes across 20+ devices; reduced manual errors by 95%
- Applied networking fundamentals (TCP/IP, routing, security groups, NACLs) to cloud infrastructure design; leveraged deep understanding of network protocols for troubleshooting and optimization

Education and Certifications

Universidad CENFOTEC - Associate's degree - Network Infrastructure & Telecommunications
Focus: Enterprise networking, Linux systems, virtualization, and network security

Jun 2019 - Dec 2021

Universidad CENFOTEC - Associate's degree - Cybersecurity
Focus: Security operations, penetration testing, and secure infrastructure design

Sep 2019 - Aug 2021

AXELOS, ITIL® Foundations V4
Cisco, CCNA 200-301
Cisco, ENARSI 300-410

Obtained Oct 2020
Valid until May 2027
Valid until May 2027

References

References available upon request