

Marco 'Marc' Perez
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Professional Summary:

Experienced in Automating infrastructures (IaaS). Skilled in identifying automation opportunities. Consulted management and clients on the complex ecosystem of today. Saved hundreds of thousands of dollars on projects. Responsible for security in the Identity, Operating System and Application domains. Excelled in stressful environments such as supporting rocket launches as a Unix engineer.

Technical Skills:

Operating Systems: Unix/Linux (RedHat, Ubuntu, SUSE, OpenBSD, Kali), Windows Server 2022/25

Languages: Java, Kotlin, JavaScript, Python (Pandas, Seaborn, Scikit, NumPy), Perl, C, Shell (various)

Web Servers: Apache, IBM HTTP Server, nginx (web & LB), Node.js (Vanilla/Custom)

General Monitoring: Splunk, SiteScope, AppDynamics, Custom Coded, Introscope, SAR/Top

Directory/DB Services: LDAP (Oracle Directory, Active Directory), MongoDB, MySQL

Machine /Deep Learning: Supervised/Unsupervised learning, Neural Networks, K-cluster and more.

Docker: Image Build, Docker hub published, Compose

Kubernetes: EKS, MiniKube, Config, Replica Sets, Deployments, Volumes, Ingress, Lens, LB, Prometheus, App deployments,

Cloud PaaS/SaaS Design/IaaS: VPC, RDS, IAM, EKS, Ec2, DockerHub/ECR, CloudWatch, S3/EBS, EFS

DevOps Tools: Jenkins, Git, Terraform, Ansible, Docker, Maven, Python, SonarQube, Kubernetes (Helm)

Data Science: Descriptive/Inferential, LogNormal, Standard Normal, Bernoulli, Binomial, ANOVA

Professional Experience:

Projects/Freelance

2022 -Current

Cloud/DevOps /Machine Learning/Deep Learning Engineering

VM (Virtual Machine) Automation – Vagrant

- Multi-OS (Linux)
- Multi-VM Vagrant builds
- Custom application shell scripts (e.g. ApacheTomcat)
- Production environment cloning

IaaS – Cloud

Cloud Automation/Build/Administration– AWS

System Automation/Build/Administration – Kubernetes

- MiniKube (feasibility studies)
- EKS (Elastic Kubernetes Service)

Containerization – Docker Hub Published

- Nginx, Apache/ApacheTomcat, Linux, Node.js, httpd, RabbitMQ, Database cache (Memcached)

System Management – Ansible

- Multiple providers (AWS, ping)

CI/CICD Full Deployment Pipelines

- GitOps – git/Jenkins/SonarQube/EKS
- Deployment triggers (url, git push)

Machine Learning – Python/TensorflowJS/White Box JS

- Models (Neural networks, linear/logistic regression, clustering etc.)
- Gaming (state machines)
- Stock Trading
- Real Estate (Housing Prices)
- Self Driving Cars (simulated in JS)

Wells Fargo Bank, San Francisco CA**2017 - 2022****Senior SRE/Unix/Information Security Engineer/AVP**

- Unix, Windows Support, and System analyses
- Application Monitoring (log, performance, stability)
- Cloud Integrations/Identity Federation (Microsoft Azure, Okta, Ping)
- Cloud Platform Support (Kubernetes)
- Service Now Ticketing system
- IIS, Apache and Node.js Web Server Development and Support
- Python, JavaScript/Node.js Development
- Resolved HTTP/TCP Traffic for Authentication issues (har/tcpdumps/devtools)
- SAML/OAuth/OpenID Connect Authentication Models
- Automated various reports (Python, Shell and JavaScript)
- Scripted various Unix utilities, e.g., system, network, device information/status, performance statistics
- Modeled SAML, OAuth Systems using Node.js
- On Call Support
- MFA/Passwordless Authentication (Okta/Hypr)

Wells Fargo Bank, San Francisco CA**2014 - 2017****Unix/SRE/Information Security Engineering**

- Unix Architecture and Engineering
- Unix and Web Server (SunOne/iPlanet/Apache) Builds
- F5 Configuration Reviews and Planning
- Network Maps/Blueprints for device implementation
- Unix automation (Perl and Shell)
- Firewall Rules Review & Support
- C Kernel Programming (IPC/Memory scrubber)
- Disaster Recovery Reviews

Wells Fargo Bank, San Francisco CA**2008 - 2014****DMZ SRE/Unix/Web Build & Support/Information Security Analyst 5**

- Unix Administration (users accounts, filesystems, networking)
- Introscope (Application profiling and stabilization)
- Build & Support iPlanet/SunOne, IBM Http Server and Apache
- Veritas Cluster/RAID
- Automation using Perl and Shell scripting
- Custom built Linux RPM packages for Web Services

Wells Fargo Bank, San Francisco CA**2004 - 2008****Application Support/Information Security Analyst 4**

- Unix administration
- Performance alarming and Capacity planning
- Statistical Analysis (WebLogic/WebSphere performance)
- Created performance alerts using statistical analysis with Perl
- Developed & Analyzed performance charts

Wells Fargo Bank, San Francisco CA**2002 - 2004****Contractor/Unix Support**

- WebLogic/WebSphere Administration and Support

- Introscope Monitoring, Performance Charts & Analysis
- Supported CEO/Wholesale environment Production
- Statistical Analysis (WebLogic/WebSphere performance metrics)
- General Unix Support
- Alarm Scripts (Introscope, Excel, Perl)

Electronic Research Group, Concord, CA

2001 - 2002

Unix Engineer/IT Manager

- Designed and configured entire Unix based networks including the implementation of Web and Application Servers for Apache and WebLogic
- Managed Sun Servers from ultra-5's to e6500 using A3500FC with D1000 Disk Arrays
- Administered Corporate Mail Server (Sendmail 8.11) using OpenBSD 2.9/i386.
- Built and administered entire DMZ environment with security policies, Sendmail 8.11, DNS 8.x using OpenBSD, Solaris 8 and Cisco switches/router
- Hardened OS's for Solaris/NT, port scanned for vulnerabilities etc.
- Veritas Cluster and Volume Manager Administration (VxFS, Raid Manager, Legato Backups)
- Mentored personnel in Unix (Solaris) issues
- Installed RSM for Cisco Switch.
- Designed and implemented security on all Solaris networks and systems
- Built Sun/Brocade (Fabric Mgr.) SAN
- NT administration for NT 4.0/2K domain
- Managed the entire IT infrastructure for local and remote site devices
- Created policies for CheckPoint and PIX firewalls
- Co-authored Disaster Recovery manual
- Built Network Operations Center (NOC) using HP OpenView/Big Brother/Perl

SPACE SYSTEMS LORAL, San Jose, CA

1999 - 2000

Senior Unix Engineer/Lead

- Storage Management, System Performance, Network Installations
- Built and Maintained NIS, DNS, NFS, AutoFS, RAID using Volume Mgr./DiskSuite, Raid Manager 6, License Managers (FlexLM), Engineer CAD's, supported rocket launches in conjunction with NASA, backups (Legato, UFS Dump), scripts using Perl/Cshell and Korn shell.
- LDAP administration using Netscape Server
- Built Solaris Unix Servers for Jumpstart, Sendmail, NFS, DNS
- Unix Support (Rocket launches/Low-Orbit Satellites) for GOCC (Ground Operations Control Center)

Skills & Training Certificates:

Ping Identity Corporation

November 2021

- SAML SSO Authentication
- OAuth/OpenID
- Ping Clusters

Udemy

2020 - 2025

- Advanced JavaScript
- Deep Learning with Pytorch
- TensorFlowJS
- DevOps Advanced
- Algorithms and Data Structures
- Android Development with Java
- Machine Learning with TensorFlow
- Mastering D3.js

- Mastering Regular Expressions (Python/JavaScript)
- Python
- SAML (Okta & SiteMinder)

Pluralsight

2022

- Splunk Fundamentals
- Postman
- Kubernetes

Performance Dynamics

2008-10

- Guerilla Capacity & Performance (Queueing Theory)
- Guerilla Data Analytics

Wells Fargo On-Site

2008-2012

- Advanced Perl
- Unix Kernel Internals
- SiteMinder Fundamentals
- Microsoft Azure Identity
- Veritas Clusters

National Radio Institute

- Certified C Programmer

1994

American Research Group

1998

- Certified Ethernet Protocols
- Certified Data Communications
- Certified Windows NT Server
- Certified Switches/Bridges/Routers

May 1998
March 1998
June 1998
May 1998