Alessandro Gonzaga

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If you've texted in the last 6 months, chances are I've stopped a spammer from reaching you.

EXPERIENCE

Platform Engineer, Anti-Spam Systems
Sep 2025 – Present

Verizon — *Bedminster, NJ*

- Operate and extend platform protecting 100M+ messaging endpoints from spam across Verizon's internal and inter-carrier networks.
- Replaced legacy OpenStack+Heat workflows with Terraform-based VM orchestration, reducing deployment time from 3–4 hours (6 VMs) to 5 minutes (62 VMs across 4 tenant spaces in multiple states).
- Built URL intelligence microservice in Go processing 3,100+ IP/s for ASN lookups; implemented warm caching layer that increased DNS throughput from 120/s to 75,000+/s for repeated domains.
- Developed agentic workflow that navigates our environment to detect spam patterns and generate threat intelligence reports, reducing manual investigation time.
- Designed data lake architecture for spam intelligence pipeline (BigQuery, Apache NiFi, Redis) with retention policies—currently driving cross-org alignment for implementation.

Network Engineer, Edge & Core Implementation
Jun 2024 – Sep 2025

Verizon — *Bedminster, NJ*

- Led automation efforts across Verizon's nationwide Edge sites, developing agentic AI tools to assist engineers in managing projects and troubleshooting edge infrastructure.
- Built automation pipeline for site audits, decreasing preparation time by 90% and enabling $100,000+ annual power savings after pilot program.
- Automated end-to-end FOA network testing for AWS MEC deployments using Terraform, Ansible, and Python—reduced test suite deployment from 3 hours to seconds per site.

Level 3 Supervisor, Office of Information Technology
May 2022 – Jun 2024

Rutgers University — *Piscataway, NJ*

- Supervised and trained 200+ consultants while managing high-priority technical escalations; achieved top ticket resolution rate with 20% reduction in average response time.

PROJECTS

Self-Hosted Infrastructure Platform | *Proxmox, Talos Linux, Kubernetes, Terraform, Go* | github.com/gnzaga

- Built and maintain a 3-node HA Proxmox cluster running multi-node Talos Kubernetes with supporting VMs/LXCs for load balancing, storage, DNS, and routing—serves 20+ users daily with SSO across services.
- Deployed AI/ML inference stack (Ollama, KubeAI) serving LLaMA, Mistral, and Gemma models via containerized GPU pipelines for local RAG agents and automation.
- Designed multi-tenant VPN mesh with friends across multiple ISPs, providing automatic failover and seamless connectivity for distributed services.

TECHNICAL SKILLS

Infrastructure: Kubernetes, Docker, OpenStack, Talos Linux, Proxmox, Ansible, Helm, GitOps
Languages: Python, Go, SQL, Bash, Terraform, JavaScript, Java, C
Data & ML: BigQuery, Apache NiFi, Splunk, Elasticsearch, Milvus, scikit-learn, feature engineering
Platforms: AWS, GCP, Linux, Nginx, Harbor, Vault, Authentik, Ollama, LangChain

EDUCATION

Rutgers University
New Brunswick, NJ

Bachelor of Science in Computer Science; GPA: 3.4/4.0 — *Aug 2020 – May 2024*