

Alessandro Gonzaga

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EDUCATION

Rutgers University

Bachelor of Science in Computer Science; GPA: 3.4/4.0

New Brunswick, NJ

August 2020 – May 2024

Relevant Coursework: Data Structures, Discrete Structures, Computer Architecture, Software Engineering, Design and Analysis of Computer Algorithms, Systems Programming, Data Science, Information and Database Management

EXPERIENCE

Platform Engineer, Anti-Spam Systems

Verizon · Full-time

Aug 2025 – Present

Bedminster, NJ · Hybrid

- Architecting Verizon's internal next-gen adaptive anti-spam platform integrating AI/ML, agentic automation, and vector search to secure 100M+ messaging endpoints across internal and inter-carrier networks.
- Delivered full system vision within 2 weeks: designed architecture, identified potential stack (Redis, Milvus, BigQuery, Apache Nifi), and presented a 2-hour technical briefing to AI, Data, and Platform orgs.
- Replaced legacy OpenStack+Heat workflows with Terraform-based VM orchestration, reducing large-scale deployment time from 3–4 hours for 6 VMs to 5 minutes for 62 VMs - enabling scalable infrastructure rollout.
- Proposed AI/ML-driven techniques to enhance Verizon's Anti-Spam and Abuse posture — evolving detection from defense to an offensive, intelligence-generating system with adversarial simulation and honeypot engagement.
- Collaborating across AI/ML, Security, and Platform teams to unify orchestration, streaming data ingestion, and model evaluation pipelines - establishing shared frameworks for feature engineering, explainability, and continuous tuning, backed by senior executive sponsorship.

Network Engineer, Edge & Core Implementation

Verizon · Full-time

Jun 2024 – Aug 2025

Bedminster, NJ · Hybrid

- Leading automation efforts across Verizon's Edge sites nationwide, spearheading the development of SOTA Agentic AI tools for assisting Engineers in managing projects and solving problems in edge engineering.
- Developed an automation pipeline for site audits from a data perspective, decreasing preparation time by over 90%, resulting in power savings of over \$100,000 per year after piloting the audit program.
- Completely automated FOA network testing a new VZ service for a cloud service provider using terraform, Ansible, bash scripting and python, reducing test-suite deployment time from 3 hours to a few seconds per site
- Collaborated with engineers nationwide to address power, space, and cooling needs, fostering more open and efficient communication across regional and national teams.

Level 3 Supervisor, Office of Information Technology

Rutgers University

May 2022 – Jun 2024

Piscataway, NJ

- Supervised and trained 200+ consultants while managing high-priority technical escalations.
- Achieved top ticket resolution rate, reducing average response time by 20%.

PERSONAL PROJECT

Self-Hosted Homelab Infrastructure | Kubernetes, Docker, Ansible, GitLab, WireGuard, TP-Link Omada, AI

- Built and maintain a distributed multi-node Proxmox cluster with GPU passthrough, centralized NFS storage, and Kubernetes-based service orchestration for GitLab, JupyterHub, Jellyfin, and LLM workloads.
- Designed a VPN mesh platform with friends enabling multi-tenant, multi-location, multi-ISP redundancy for critical services—providing seamless connectivity and automatic failover across heterogeneous networks.
- Integrated Ollama for serving open-source LLMs (LLaMA, Mistral, Gemma) via containerized GPU inference pipelines, powering local RAG agents and Discord bots.

TECHNICAL SKILLS

Languages: Python, Java, C, SQL, JavaScript, HTML/CSS, React, Tailwind CSS, Bash, Terraform, Golang

Developer Tools: Linux, Git, Docker, Kubernetes & Compose, Spring Boot, Postman, Jira, Nginx, Cloudflare, LLM, RAG, Generative AI, Agentic AI, AI Tool Usage, VertexAI, WatsonX.ai, Ollama, K3s, Ansible, Kubectl, Kubeadm, Elastic Search, Splunk, Kibana, OpenStack, OpenShift, Heat, BigQuery, Apache Nifi