CARLO MENCARELLI

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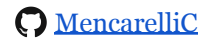
Cloud Architect and Engineering Leader

Honorably discharged veteran with extensive experience designing, building, and managing complex SaaS systems. Specialization in cost reductions, efficiency improvement, and contemporary systems design. Proven track record in leading and completing projects of various scales and budgets. Rich experience in developing engineers and teams.

——————————————————Professional Experience——————————————————

Staff Engineer, Infrastructure   June 2022 – Present
Hackerone – San Francisco, California (Remote)

Most senior engineer and tech lead for the Infrastructure team. Predominantly acted as a systems architect and mentor for other engineers. Provided crucial support for product engineering squads to move fast and securely. Frequently worked as a point of contact for vendor relationships and internal proof of concept work.

- Realized $250,000 in savings for various monitoring and observability tooling.
- Optimized disaster recovery plans to reduce RPO to seconds and RTO to hours during regional failure.
- Primary POC and contract negotiator for over a dozen vendors, including AWS, SumoLogic, and DataDog.
- Drove adoption for architecture decision records (ADR) and request for comments (RFC).
- Primary architect and leader for migration from EC2 to Kubernetes for core services and applications.
- Matured and championed Gitlab CI/CD pipelines and security platforms.
- Provided mentorship for numerous senior and junior engineers in wider engineering org.

Senior Cloud Engineer / Tech Lead Manager   November 2020 – June 2022
BillGO – Fort Collins, Colorado

Lead architect for Amazon and Azure production cloud environments. Focus on high-speed growth, developer enablement, and security. Built and led a team of seven engineers to manage and build hundreds of cloud assets with Terraform, Packer, and cloud-native tooling. Frequently a point of escalation regarding infrastructure inquiries and concerns both client-facing financial institutions and internally for 150 engineers.

- Lead engineer for tokenization vault architecture leveraging AWS API Gateway, Lambda, DynamoDB, dual KMS encryption, and Elasticache.
- Authored numerous Terraform modules to encourage self-service Infrastructure as Code (IaC) changes.
- Designed and led multiple disaster recovery efforts for both client requests and internal requirements.
- Reduced RDS failover from 5 minutes to 2 seconds utilizing RDS Proxy and recommended code changes.
- Engineering point of contact for primary customer-facing API and fraud systems

Senior Systems Engineer   October 2018 – November 2020
NationBuilder – Los Angeles, California (Remote)

Providing engineering leadership to improve automation, security, and system architecture. Serving as the resident Ansible, Terraform, and Packer expert for the engineering staff. Acted as a security expert for both internal and external-facing teams. Lead engineer and architect for platform edge migration from Akamai to Cloudflare, including migration of over 10,000 customers. Implemented a secure edge service, protecting against fraud and DoS attacks.

Continued...

Network and Systems Engineer   May 2013 – October 2018
Harris Corporation – Melbourne, Florida

Supported the Harris Data Exchange (DEX) and FAA System Wide Information Management (SWIM) programs which provide an infrastructure for Air Traffic Control data to be dispersed across the country. Frequent responsibilities involved planning, coordinating, and conducting maintenance events; researching and implementing cost and time-saving measures; design of system architectures; as well as serving as the highest escalation point for technical issues.

Education

Master of Science, Applied Data Science   May 2019
Syracuse University
Courses include: Advanced Data Analytics, Natural Language Processing, Text Mining, Data Warehousing, Big Data Analytics

Bachelor of Science, Information Systems   May 2015
Florida Institute of Technology
Courses include: Management Information Systems, Network Theory and Design, Information Systems Auditing and Control

Military Service

The United States Marine Corps   August 2009 – August 2013
Billets Included: Maintenance Management Chief, Key Control Officer, Armory Custodian
Honors Received: Navy-Marine Corp Achievement Medal, Good Conduct Medal, National Defense Medal
Honorably Discharged as an E4/Corporal

Certifications

Numerous certifications, including:
    AWS Certified Solutions Architect – Professional
Expires May 2026

    AWS Certified Security – Specialty
Expires January 2026

Expertise and Skills

- Deep familiarity with Debian-based (Ubuntu) and Fedora-based (Red Hat, CentOS, Amazon Linux 2023) distributions.
- Day-to-day use of mainline AWS offerings
  - EC2, RDS, S3, IAM, Lambda, ALB/ELB, VPCs, GuardDuty, SecurityHub, Inspector, CloudWatch
- Experience with Infrastructure as Code (IaC) and configuration management tooling
  - Terraform, Packer, Ansible, Helm, Kustomize
- Database administration familiarity (Both SQL and NoSQL)
  - MySQL, PostgreSQL, OpenSearch, DynamoDB
- Various levels of skill with numerous scripting and programming languages
  - Familiar with Python, Ruby, and Bash
- Building, extending, and administrating system monitoring and security solutions
  - Datadog, SumoLogic, Sentry, Opensearch, CloudFlare, Akamai, Snyk, Honeybadger, Nessus
- Understanding of and capabilities in multiple CI/CD solutions:
  - GitLab CI, GitHub Actions, Jenkins, TravisCI
- Knowledgable of multiple queueing technologies
  - AWS SQS, AWS SNS, AWS EventBridge, ActiveMQ, Oracle WebLogic, Solace Systems, RabbitMQ