

# Richard W. Gowen

1600 Long Prairie Ct., Allen, TX 75002

---

More than 25 years of experience in all areas of IT culminating in the current position Solution Architect for PepsiCo.

Looking for a role as an architect in cloud security and/or security automation.

---

## EXPERIENCE

### PepsiCo

Plano, TX – 2016-Current

#### **Global Cloud Foundation and Cloud Security**

*Solution Architect – Early 2021 – Current*

- Senior architect in the cloud foundation group responsible for PepsiCo infrastructure and security automation.
  - Established the architecture for Ansible Automation Platform and lead the team implementing. Met cloud migration goal (150+ migrations & \$17MM savings) speeding time to delivery from weeks to hours for 90% of IaaS.
  - Improved the architecture for Azure and AWS cloud infrastructure design and security segmentation incorporating a Terraform framework. Exceeded business goals for faster cloud deployments with fewer security remediations.
  - Oversight of the automation development teams driving infrastructure and security features in Ansible and Terraform to meet business objectives.
- Subject matter expert in cloud security responsible for oversight of the teams doing security rule reviews and implementing security remediation policies.
  - Developed Ansible code and architecture for security automation of Azure Network Security Groups (NSGs) including rule implementation as well as backup and restore capability. This allowed for the rollout of critical infrastructure rule changes to 800+ Subnet NSGs in hours vs. weeks.
  - Established and chair the NSG “common rules” working committee (reviewing proposed changes to a baseline NSG template).

#### **Global Cloud Security and Cloud Services**

*Solution Architect – Late 2019 – Early 2021*

- Senior architect in the cloud security group responsible for PepsiCo’s cloud segmentation architecture and cloud migration security remediation approach.
  - Created the architecture for cloud segmentation using cloud native tools such as Azure Network Security Groups (NSGs) and Application Security Groups (ASGs).
  - Established and lead the team performing policy implementations for cloud migration security remediations exceeding business objectives.
  - Trained a team to perform reviews of all NSG security rule changes improving review time by days without any loss of security oversight.
- Subject matter expert in the cloud services group responsible for reviewing all cloud migration network and security designs and mentoring migration teams
  - Performing design reviews and mentoring migration teams helped meet the initial business cloud migration goal (100 migrations & \$15MM savings)

#### **Global New Capabilities Delivery**

*Solution Architect – Early 2018 – Late 2019*

- Head of newly formed New Capabilities delivery group responsible for evaluating and implementing new infrastructure and security technologies.
  - Established the NCAP delivery framework and mentored four direct reports.
  - Managed the POC and pilot of Passive Optical Network (PON) equipment
  - Lead POC and rollout of Palo Alto next gen firewalls replacing Cisco ASA at 8 DCs, converting millions of rules and avoiding \$5MM+ vs. Cisco Firepower.
  - Implemented Secure Web Gateway cloud proxy solution for 30K+ employees
- COVID-19 Response Team responsible for expanding VPN and firewall capacity at all data centers for an additional 200K employees working from home using VPN.

## Solution Architect

Cell +1 (630) 890 8246  
Email richard@gowen.net

---

## KEY ACHIEVEMENTS

### PepsiCo Awards

Global CIO Award Winner 2022  
Global CTO Q2 2021 Award Winner  
Global CIO Award Winner 2020  
Global CTO Q4 2019 Award Winner

## SKILLS

In-depth knowledge of:

- Security Technologies
  - Palo Alto Firewalls
  - Panorama Firewall Mgt
  - Azure NSGs, ASGs, FWs
  - AWS Security Groups
  - Cisco Firewalls, ACLs
- Network Technologies
  - Cisco Routers, Switches, etc.
  - Arista Switches
  - Routing protocols: BGP, OSPF, EIGRP, more...
  - WAN protocols: MPLS, DMVPN, more...
  - Wireless: Aironet, Meraki, Aruba, more...
  - Software Defined Networks: VXLAN, IWAN, SDWAN, VeloCloud
- Automation Technologies
  - Ansible Core, AWX, Tower, Automation Platform, Private Automation Hub
  - Terraform
  - Azure DevOps Pipelines
- Protocol Analysis
  - Wireshark
  - Kismet
- Load Balancing
  - F5 Big-IP GTM, LTM
  - Azure Application Gateway
- Server Virtualization
  - VM-Ware, oVirt, Gluster
  - Docker, Kubernetes
- Languages
  - C, C++, C#, SDCC, Python, JavaScript, more...

## COMMUNITY

- Hosted the Hardware Hacking Village at the BSidesDFW security conference since 2016
- Active engagement & mentoring at monthly meetups for Dallas Hackers Association (DHA) and DEFCON Group (DC214)
- Founded a 501c3 makerspace TheLab.ms and continue to sponsor its community success
- Fundraising for all the above
- Teach classes on Networking, Python, Microcontrollers, more.

## EXPERIENCE (Continued)

### PepsiCo

Plano, TX – 2016-Current

#### **Global Infrastructure Engineering**

*Network Architect – 2016 – Early 2018*

- Senior architect in the infrastructure engineering group responsible for network and security infrastructure designs, implementations, and tier-3 support.
  - Established the architecture for and lead a team to implement a low latency high bandwidth private Metropolitan Area Network (MAN) between 4 data centers.
  - Architected and implemented a new Global Backbone Network with redundant high bandwidth circuits between 8 global DCs and various global cloud providers.
  - Established the architecture and implementation runbook for SD-WAN routing, implementing SD-WAN routing at 8 global DCs and over 500 field sites.

### Experian

Lombard, IL and Schaumburg, IL, and Allen, TX – 1999-2016

#### **Business Strategic Solutions**

*Solution Architect – 2014 – 2016*

- Senior architect in the business strategic solutions group responsible for providing technology solutions to address business needs.
  - Worked with business leaders and engineers across all IT towers to design solutions that had direct impact on business goals
  - Designed solutions including a cloud alternative to a new data center to meet data residency requirements, the development of an AWS runbook providing consistent secure deployments, a VDI solution to meet PCI requirements
  - SME involved in PCI, HIPAA, SSA, and various other government audits.

#### **Network Architecture and Engineering**

*Network Architect – 2004 – 2014*

- Architect responsible for documenting strategies, network design and implementation oversight supporting various global business unit needs.
  - Designed and implemented 9 data center relocations, designed a Hybrid WAN (MPLS/DMVPN) solution, performed acquisition assessments and integrations, designed a new voice/video over IP solution.

#### **Network Architecture and Engineering**

*Senior Network Engineer – 2001 – 2004*

- Senior network engineer responsible for designing, implementing, managing, and troubleshooting all aspects of the network. Designed and implemented an employee remote access solution and several data center relocations.

#### **Network Security Engineering**

*Network Security Engineer – 1999 – 2001*

- Engineer responsible for all network and security devices for Experian. Design, implementation, and troubleshooting all aspects of network and security.

### Health Care Service Corp (BCBS of IL & TX)

Detroit, MI and Chicago, IL – 1990 – 1999

*Network Engineer, Security Engineer, DBA, Sys Admin*

- Worked various IT positions for HCSC including mainframe programmer, Unix system admin, DBA, security engineer, and network engineer.

### US Air Force – 1986-1988, US Army and US Army Reserve – 1988-1996

- Trained as a communication technician with the Air Force. Switched services to the Army as a combat communication operator. Separated as part of force reductions.

## CERTIFICATIONS

Current

- No current certifications

Previously Held

- CCNA
- CCNP
- CCDA
- CCDP
- SCO CSA
- SCO ACE