**­Gonçalo Gil**

**CCIE#47511**

[**goncalo.gil74@gmail.com**](mailto:goncalo.gil74@gmail.com)

**Personal Details**

1. Nationality: Portuguese and British
2. Languages English and Spanish
3. Address: 176 Drakes Drive, St Albans, Herts, AL1 5AB
4. Mobile: +44 7789 618425
5. Available: Immediately

**Personal Profile**

Experienced Network Architect with a proven track record of successfully delivering large scale Infrastructure solutions across a wide range of Financial Institutions. Excellent client facing experience gained from large scale multi-vendor projects. Able to deliver full Projects life cycle.

Key strengths are design, deployment and support of large Infrastructures. Strong combinations of SDN, routing, switching, security, VoIP, video, virtualization and low latency skills in large environments.

Quick thinker who can work in fast-paced and challenging environments.

**Technical Skills**

**Routing:** Cisco Routers, ASR9/1K and ISR Series. Juniper MX/M/J Series.

**Switching:** Cisco Nexus 9/7/6/5/3/2K, Cat9/6/4/3/2K. Arista 7500/7300/7200/7100, Juniper EX and Extreme. Arista and Cisco ACI.

**SDN:** Cisco ACI APIC and Arista CVP. Lab testing of Cisco SD-WAN and SD-Access (DNA)

**Scripting:** Python and Ansible (ongoing learning)

**Cloud:** AWS/Google networking components. Akamai and Cisco Umbrella.

**SAN:** FC 4/8GB Cisco and Brocade switches.

**Optical/Transport:** Ciena, Adva and PacketLight DWDM

**Protocols:** IPv6, MP-BGP, OSPF, EIGRP, RIP, BFD, PIM, MSDP, IGMP, HSRP, OTV, LISP, VxLAN, MPLS, VPLS, DMVPN, MST, RSTP+, STP, FCoE, FabricPath, VPC, MLAG, UDLD, EVC/Q-in-Q, CDP, LLDP and 1/10/40/100GbE.

**Wíreless:** Cisco Prime Infrastructure, ISE, WLC, Wireless Access Point and WLSE.

**Security:** Checkpoint Firewalls, Checkpoint MDSM/P-1, Fortinet FortiGate, PaloAlto Firewalls, Juniper SRX, Cisco ASA, Cisco FirePower Firewalls, AlgoSec, FireMon, Mcafee IPS, FireEye MPS, FireEye Mandiant, Netmap scanners, Cisco ACS, RSA SecureID, Bluecoat Proxies and Cisco IronPort.

**Load Balancing:** F5 LTM/GTM, Citrix Netscalers and A10 ADC

**WAN Optimisation:** Riverbed Steelhead.

**IPAM:** Infoblox and QIP.

**VoIP:** CUCM, SIP, SRST, MGCP, SCCP, PoE+, Verint Witness Voice Recording, Prognosis, Tiger Call Logger, AVST Voice Mail.

**Video over IP:** Cisco, Tamberg and Policom. H.323, Gatekeepers and MCU. Axis CCTV.

**Network Monitoring:** SevOne, Splunk, CA Spectrum, Solarwinds, Manage Engine, Corvil, Riverbed OpNet, Netscout nGenius, Infinistream, Cisco Nexus Data Broker, Arista 7150 Aggregations/taps switches, Apcon Aggregation switches, Cisco NAM, Netbrain, Netflow, NBAR, IP SLA and Wireshark

**Testing tools;** Spirent TestCentre and Avalanche.

**Time Synchronization:** PTP/NTP (MicroSemi, Spectracom/Orolia, Endrund)

**Cabling/Optics:** CATx, MMF(OM3/4/5/6), SMF structured cabling, SFP, SFP+, SFP28, QSFP+ and QSFP28.

**Hosting:** Cisco UCS B/C-Series, Cisco Fabric Interconnect, Cisco UCS Manager, Nexus 1K, VMWare, NSX, Cisco AVS/AVE, Dell/ HP/IBM Servers, NICs, HBA and CNA adaptors.

**OS:** Linux RHEL, CentOS, Fedora, Ubuntu and Windows Desktop/Server.

**Work Experience**

**Bank of America Merrill Lynch March 2019 – July 2019**

**Low Latency Senior Network Engineer**

I was part of the EMEA Network Engineering Team.

My responsibilities include:

* Electronic Trading Low Latency Extranet design and implementation for a large range of Third Parties, Clients, Financial Service Providers (BT Radianz, TNS, Fixnetics, Options IT, TMX Atrium, SIANet, others), Colo x-connect, Point-to-point circuits and VPN.
* Migration of unicast/multicast Extranet feeds from legacy infrastructure to new Colo Low Latency environment. Coordination of Trading application migration and PIV testing.
* HLD/LLD documentation and BAU hand-over sign off.

**RBC (Royal Bank of Canada) November 2017– February 2019**

**Senior Network Engineer**

I was part of the Global Delivery and Network Engineering Team covering all aspects of Networks, Security and Voice. This role was a combination of Technical Design and hands-on expertise.

My responsibilities included:

* DC Networks Programme/Projects delivery (Project Definition, Design, Deployment and handover to BAU) for two new London Datacenters and Low Latency Colocation sites.
* New Datacenters network is based on Arista Spine and Leaf Network (40/100G) using CVP automation and Telemetrics. This is a new CM standard for RBC and required PoC Lab validation. As part of new standard introduction it required sign off of HLD/LLD documentation.
* Creation of BOM (Bill of Materials), Datacentre infrastructure requirements (cabling, power, cooling), patching schedules, rack elevations, IP allocations, DNS registration.
* Design Advanced services silos: Internet/Extranet firewalls (PaloAlto, Fortinet and Checkpoint), F5 GTM/LTM, Inboblox (Anycast DNS), Tap Aggregation, Infinistream, Spectracom GM PTP/NTP, FireEye, Firepower IPS, DLM, BlueCoat Proxy Server with SSL decryption, BYOD, Cooperate Wireless, IPT/VoIP infrastructure, Market Data multicast backbone, 100G Transatlantic WAN.
* Deployment and configuration of new Network using Arista CloudVision Portal automation.
* Introduction of new solution to Global standards, Procedures, Artefacts and BAU Team.
* Maintaining relationships with major Vendors, VARs and Telcos.

**Standard Chartered Bank April 2016 – November 2017**

**Low Latency Senior Network Engineer**

I was part of the Global Low Latency Engineering Team.

My responsibilities included:

* Full Project Life cycle.
* Design of Low Latency Solutions based on BU requirements.
* Delivery and implementation of solutions.
* Technology reviews, PoC initiatives, Lab product validation and HLD/LLD documentation.
* Interaction with BUs and Infrastructure Teams on Technology initiatives.
* Introduction of new Solutions and Global standards

Major achievements include:

* Design and build of Equinix TY3 and LD5 Low Latency Colo.
* Upgrade of Equinix NY4 Colos to Low Latency hardware.
* Design and implementation of MAR (Market Abuse Regulation) Data capture solution with HA and dual feeds five location globally. Using a combination of passive dual taps, tap aggregation and SolarCapture devices.
* Design and implementation of Midfid II Timesync PTP solution using Microsemi GPS/Glonass appliances for all Colo and Datacenters Globally.
* Design and implementation of Low Latency MAN and WAN between all Global Colos.
* Design and implementation of Global multicast (ASM/SSM).
* Implementation of Cisco ACI Spine and Leaf Pod at UK Datacenter.

**Tradition January 2016 – April 2016**

**Head of Networks/Technical Lead**

I was Technical Lead for Data, Security and Voice Infrastructure. Looking after Engineering and BAU Team. A large Financial Broker network based on Juniper, Cisco and Arista.

My responsibilities included:

* Daily Support.
* Driving yearly hardware/software EoL refresh initiatives.
* Interaction with BUs and Infrastructure Teams on Technology initiatives.
* Technology reviews, PoC initiatives, Lab product validation and HLD/LLD documentation.
* Introduction of Global standards, Procedures and Artefacts.

Major achievements include:

* Build of Paris Equinix PA2 and PA4 Colocation network based on Juniper SRX and Arista switches.
* Upgrade Dubai office WAN/LAN to Juniper SRX and EX switches
* Upgrade Rome WAN connectivity
* HLD/LLD proposal for Level 3 Client Extranet migration to BT Radianz connectivity.

**UBS (AT&T) October 2015 – December 2015**

**Low Latency Senior Network Engineer**

I was part of the Global ULL (Ultra Low Latency) Team.

My responsibilities included:

* Equities and FX Projects delivery.
* Technology reviews and Solutions validation
* HLD/LLD documentation.
* 3/4th line Support escalation.
* Maintaining relationships with major Vendors, VARs and Telcos.
* Hardware/software EoL refresh initiatives.
* Interaction with BUs and Infrastructure Teams on Technology initiatives.

**RBC (Royal Bank of Canada) August 2011 – July 2015**

**Senior Network Engineer/ Networks Technical Lead**

I was part of the Global Engineering Team covering all aspects of Networks, Security and Voice.

My responsibilities included:

* Networks Programme/Projects delivery (Project Definition, Design, Deployment and handover to BAU)
* Technology reviews, PoC initiatives, Lab product validation and HLD/LLD documentation.
* Introduction of Global standards, Procedures and Artefacts.
* 4th line Support escalation.
* Maintaining relationships with major Vendors, VARs and Telcos.
* Driving yearly hardware/software EoL refresh initiatives.
* Interaction with BUs and Infrastructure Teams on Technology initiatives.

Major achievements include:

* Build of two London Datacentres, migration and decommissioning of legacy Datacentres. Deployment of DCI allowing VM/Workloads mobility and DR failover.
* Design and implementation of European Low Latency Colo sites using Arista 7150 switches.
* Design and deployment of Metro DWDM network.
* Implementation of multiple new user sites and WAR facilities in EMEA.
* Standardisation of London IPC and VoIP infrastructure.
* Design and deployment of APM using Netscout, PTP servers and timestamping, Arista Aggregation switches and Network Critical taps. Real-time Multi-hop latency performance monitoring and gaps correlation for Order ports and Market Data.
* Re-designed and deployment of third party connectivity (Exchanges, Market Data providers, MTFs, Dark Pools, Clients).
* UCS and FI hosting Infrastructure deployment.
* Design and deployment of Cisco BYOD using a combination of Cisco AP, WLC, MSE and ISE hardware.
* Design and deployment of new Perimeter Security including PaloAlto SSL Decryption, DLM, FireEye Mandiant, FireEye MPS, IPS, Netflow and others.
* Migration of Applications HA to GTM and LTM infrastructure.
* Upgrade of European MPLS WAN Hubs.
* Integration of Dexia Infrastructure into RBC CM network.

Before leaving RBC I was working on NG Datacentre platform initiative, including Cisco ACI and Arista Fabrics PoC. The IaaS solution required to be scalable, flexible and reduce ready-for-production timings, optimising processes via Automation and Orchestration.

**Instinet (Nomura Group) April 2005 – August 2011**

**VP European Networks**

Responsible for Architecture, Engineering and BAU Team. This was a Management hands-on Technical role.

**Chi-x Europe (As part of Instinet employment) July 2007 – December 2008**

**VP European Networks**

Responsible for Architecture, Engineering and BAU Team. This was a Management hands-on Technical role.

**CAE (Cisco Partner) May 2004 – March 2005**

**Technical Consultant**

Responsible for the creation and provision of Network Solutions to a mixture of Financial and Corporate clients.

**3COM**

**March-April 2004**

**Technical Services Consultant**

Provided Technical Consultancy to Enterprise customers. Responsible for Large Corporate accounts Pre/Post-Sales support and HLD/LLD documentation.

**Career Break – Travelled around the World June 2003-March 2004**

**WestLB Bank June 2001–May 2003**

**Network and Security Architect**

Member of the Global Networks and Security Engineering Team.

**BNP Paribas Bank September 1999-June 2001**

**Network and Security Engineer**

Member of the London Networks and Security Support Team. Later moved to Global Deployment Team covering all Regions.

**PA Consulting Group October 1997- September 1999**

**Network Engineer – Technical Development**

I was part of the Network Team providing Support and Network deployment.

**Merck, Sharp & Dohme 1997**

**Network Analyst**

Provided 1/2nd Line network Support.

**Netsystems International 1995-1997**

**Network Support**

**Certifications**

CCIE R&S #47511 – Cisco

CCIE Datacenter written - Cisco

CCDP, CCDA - Cisco

CCNP, CCNA - Cisco

JNCIP-ENT - Juniper

JNCIS-ENT - Juniper

JNCIA - Juniper

CCSE/CCSA - Checkpoint

ACE - PaloAlto

MSCE/MCP+I - Microsoft (expired)

**Education**

* Ansible – 2018
* Python – 2018
* Arista CloudVision Portal – 2017
* Cisco UCS - 2017
* Cisco ACI – 2016
* Cisco Live Conference (multiple attendances)
* PaloAlto Networks 201/205/221 - 2014
* Cisco Wireless - 2012
* Enterprise Architecture TOGAF - 2010
* ITIL Foundation - 2009
* F5 Big IP Global Traffic Manager and Local Traffic Manager - 2008
* INE CCIE Bootcamp - 2007
* Advanced Juniper Networks Routing in the Enterprise - 2007
* Cisco Call Manager - 2005
* Cisco Video over IP and Conferencing - 2005
* CiscoWorks 2000 Enterprise Network Management - 2004
* Cisco Content Services Switches - 2004
* Fore ATM Switches - 1999
* HP Openview Network Node Manager - 1998
* Unicenter TNG Basics and Advanced - 1998
* Compaq Systems Management - 1998
* Cisco Certified Network Associate - 1997
* Microsoft Certified Systems Engineer – 1997

**Interest and Activities**

Marathons, triathlons, reading and travelling.

**References**

<http://www.linkedin.com/in/goncalogil>