# **TECHNOLOGY, CLOUD, AND INFRASTRUCTURE LEADERSHIP**

# Experienced Technical Director, Infrastructure Architect, and Engineering Leader with 25 years of success designing, scaling, and securing cloud-native and hybrid environments. Known for driving strategic initiatives, building resilient infrastructure, and applying AI/ML to optimize operations. Adept at translating business needs into actionable, scalable solutions while mentoring high-performance teams.

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| *Alex Swain, Savannah GA- ✆ 504-577-3836 🖅* [*alex@swain.cloud*](mailto:alex@swain.cloud) *🕸 https://www.swain.cloud*  *This is NOT an AI generated resume.* |

## • Deeply experienced infrastructure architect, engineer, and manager with twenty-five years professional experience building, managing, and troubleshooting complex production environments.

## • Creative problem-solver and out-of-the-box thinker

## • Self-driven and genuinely interested in providing superior work

## • Strong people leadership and management skills; strong in documentation and editing

## • Deep and varied experience in core infrastructure, architecture, design, and implementation • Extensive technical knowledge over a myriad of technologies

## • Heavily focused on building secure, resilient and scalable environments.

## • Strong interest and hands-on work using Machine Learning and AI for automation and efficiency

## • C-level expertise including managing high level business requirements.

**Aquent- Director, IT Infrastructure 2023-2024**

*Infrastructure Consultant/Interim Director, Cloud Infrastructure Design/Auditing*

• Thorough analysis and documentation of the Aquent IT Infrastructure to identify opportunities for improvement.

• Led and mentored a 15-member team across engineering, IT operations, and support, enhancing productivity and service uptime.

• AWS Systems Manager (SSM) deployment to automate patching of AWS resources.

• Evaluated, hired, and onboarded engineers during a reorganization of the technical staff.

• Responsible for vendor and relationship management for our primary Cloud and technology vendors.

• Functioned as an SME for AI related tooling and how to integrate into their IT Infrastructure.

• Built AI proof-of-concepts (PoCs) for senior leaders demonstrating capacities of various AI tools

• Budget-conscious off-the-shelf Chatbot deployment and LLM integration and prompt tuning for internal support content searching, and automation of redundant tasks. Used Computer Vision to build talent portfolios without exposing the actual art or artist

• Wrote RFPs for various infrastructure related projects including a Microsoft on-premise tool conversion to Cloud (Azure)

**NFL – Senior Cloud Architect, 2017-2021**

*Ground-up build out of the NFL IT Cloud Infrastructure*

•Lead technical and business liaison between the NFL and AWS

•Designed, documented, and implemented the cloud security framework

•Built out the core AWS cloud infrastructure for NFL IT. Built the network, accounts, and associated hybrid

infrastructure topology

•Designed and implemented migration solutions to cloud for numerous apps

•Architected scalable, low-latency cloud infrastructure for video and live content streaming

•Contributed as a senior architect for a very large multi-petabyte object store content library

•Initiated engagement, design, and architecture of the PHS (Player Health and Safety) initiative

•Evaluated, hired, and negotiated a contract to on-board a large MSP to manage custom engineering projects in cloud

•Emergency migration of a large video proprietary security platform to Cloud

Major Initiatives

*Migrated the NFL Game Statistics and Information Service (GSIS) from premise to cloud. Game Statistics captures the real-time details behind plays during games.*

• Designed, built, and cut over a hybrid game statistics app and related infrastructure to AWS cloud. Multi-cloud and multi-premise design including multi-path premise and cloud failover.

• Wrote operational SOP documentation including runbooks

• *Design of the LSB (Legalized Sports Betting) cloud infrastructure. LSB streams went to customer premise and cloud endpoints in the United States and Europe.*

• Built ultra-low latency and highly secure video streaming infrastructure using Haivision media gateways

• HA solution built using multiple redundant multicast video sources transiting different int'l regions

• Emergency stand-up and migration of software built for premises-only to cloud.

• Stand up of a secure video transfer workflow from premise to cloud

• Built multi-region AWS FSx for Windows File Server cluster and associated high availability requirements

Assisted NFL Draft migration (Draft picks) from in-person to Cloud due to Covid.

**Thaumaturgix, Sr. AWS Systems Architect - 2015-2017**

*Cloud architecture and design work for a boutique technology consulting firm in Manhattan*

• Design/deployment of cloud native and hybrid environments for critical up-time applications

• Built fault-tolerant and highly secure multi-region infrastructure for web apps and databases using containers

• Translated non-technical users’ requirements into designs, SOP's, and runbooks

• Migration of premise-based web and database environments to cloud including compute, storage, databases, and API migration/building.

**Amulet Hotkey, Sr. VDI Architect - 2013-2014**

Tested, built, and performed hardware deployment of PCoIP (PC-over-IP) (trading systems across numerous banks in Manhattan

• Proof of concepts building large multi-blade GPU accelerated PCOIP environments

• Management and design of virtualization clusters, network connectivity.  
• Management of lab and associated build projects

• Large-scale burn-in-testing and QA for production hardware deployment

*Large-scale deployment of hundreds of PCOIP GPU workstations to a bank trading floor*

• Streamlined and centralized hundreds of trader workstations to a few racks running ESXi and Teradici zero clients

• Significant cost savings associated with centralizing the environment including centrally managing security, network, and upgrading virtual workstations and associated software.

**UBS, Disaster Recovery Engineer 2011-2015**

*Emergency evacuation of Brokers due to Hurricane Sandy requiring the move of several thousand employees to*

*offices outside of the flood zone.*

• Network and Infrastructure management of the UBS Weehawken campus.

• Lead project organizer

• Emergency tear-down and moving of flooded IT equipment including network infrastructure.

• Organizing and documenting thousands of employees’ locations and IT equipment   
• Organizing re-deployment of new and extant IT gear to new offices.

*Technical examples of my work available at* [*https://www.swain.cloud/*](https://www.swain.cloud/)