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Clearance: SC

Summary:

Experienced hands-on Architect offering strategic solutions and capability development. With experience, expertise, and a deep understanding of the financial, government and startup sectors. My main objective has always been to deliver real solutions that achieve impactful results. Currently focusing on GenAI capabilities with guardrails for Enterprise.

Experience:

Lead Cloud Solution Architect - Howden Group (08/2020 – 07/2023)

- Strategised and implemented a successful migration from on-prem and AWS to Azure, modernising and migrating hundreds of applications and platforms (SSO, AUTH, RBAC, REST, etc).
- Designed and implemented a cloud insurance broker marketplace platform, supporting all acquired companies.
- Developed an Identity and Access Management (IAM) strategy, implementing a Zero Trust Architecture, driving automation.
- Organised GenAI workshops with working examples to help stakeholders understand how LLMs will change and affect the business. Areas covered, Tuning vs Prompting, Chunking/Splitting/Embedding, GenAI Frameworks, Security, Governance & Containment

Co-Founder – Sensational.Space (2023)

- A spacial intelligence platform for understanding and controlling spaces anywhere.
- These spaces are monitored and controlled by intelligent devices running edge intelligence models.
- All processes & applications are run on Foundational models like GPT-4 using frameworks like Functions Calling, Langchain, LlamaIndex, Transformers (Hugging Face).
- MRKL, ReAct & ChainOfThought etc for Foundational & GPT Agents

Chatbot Consultant - United Nations (07/2020 - 11/2020)

- Developed multilingual chatbot pilot to automate IT support requests.
- Utilized Google CCAI, Assistant, and Dialogflow for conversational chatbots and agents.
- Implemented data platform and ML tools for predictions.

Lead AI Architect - Capita PLC (08/2018 - 01/2020)

- Led digital transformation, migration to a single data platform in the cloud for about 20 AI companies in the group.
- Implemented architecture in a multi-cloud environment using Azure, AWS, and GCP
- Provided capability for data scientist, platform engineers to work in an integrated platform using Databricks.
- Introduced full automation to Infra, Data & MLFlow pipelines.
- Designed and implemented IAM, worked on platform auditing, SIEM, and SOC
- Led technology strategy for newly created in house consultancy.

Lead Enterprise Architect – Homeoffice UK Gov (03/2016 - 01/2018)

- Designed and implanted the central data platform underpinning policing, borders (Reducing waiting times to just 5 mins), HMPO (Fast tracking passports 90% instant).
- Successful strategy to move UK GOV from Crown Hosting to public cloud drastically improving security, automation and go live times.
- Led on POLE (People, Objects, Location, Entities) data model used across many UK GOV bodies including Immigration, Borders an NLEDS.

- Led successful initiative to have a fully automated platform. From Infra as code, data pipeline, user management to rolling upgrades.

Lead Solution Architect – Met Police (06/2014 - 10/2015)
- Delivered a framework MetSearch a Google style search capability for police data allowing for 70% reduction in response times.
- Successfully implemented platform that allowed the Met to quickly identify people even when using aliases and online personas.
- Improved reporting for commanders with Tableau, developed storage solution for body-worn cameras.
- Successfully PoC in car communication for all police vehicles using LoraWAN.

Solution Architect - RGARE (05/2010 - 06/2014)
- Built Automated Underwriting Rules Engine (AURA) and automated EHR NLP Platform for actuarial audit.

Architect/Developer - BBC (12/2009 - 03/2010)
- Digitized the largest television archive for real-time access.

Architect/Developer - Deloitte (06/2009 - 12/2009)
- Developed royalty platform for the Phonographic industry PPL.

Developer – Dun & Bradstreet (10/2005 - 01/2009)
- Worked on a Company Due Diligence Platform

Solution Architect - RGARE (07/2004 - 06/2005)
- Built Automated Underwriting Rules Engine (AURA)

Skills:
- **Architecture** – Agile, Enterprise, Solutions, Technical, Infrastructure, Data, ML/AI, GenAI, IAM and Security
- **Cloud** – GCP, AWS, Azure, Render, Railway, Colab and Hybrid (IaaS, PaaS, SaaS, AIaaS?)
- **Data** – **Patterns** (Event Sourcing, CQRS, Zero Trust), **Processing:** (Databricks, PySpark etc.), **Persistence:** (Azure Datalake, Blob Storage, Cloud Storage, Bigquery, CosmosDB, Snowflake, Graph (Neo4j) and VectorDB etc.)
- **Data Governance** - Provenance, Lineage, DQ, Curation (Unity Catalog), Live Tables, AI Containment & Guardrails
- **CRM –** Salesforce, Novidea, HubSpot
- **Automation** – Observability & Control, IaC (Terraform), CI/CD, DevOps, FinOps, ELT, EL+T (Live Tables), MLFlow
- **GenAI Foundational Models** – GPT-4 (OpenAI), Claude 2 (Anthropic), PALM 2, Cohere, Llama 2 (Meta) etc.
- **GenAI App Frameworks & Patterns** – Langchain (Langflow, Flowise, Chainlit, LangSmith, LangForge), Transformers (Huggingface), Functions Calling (OpenAI), Prompt Engineering, ReAct, MRKL, Agents, Chunking/Splitting, Embeddings, Vector Stores, Chatbots
- **IoT** – Raspberry PI, ESP32, Edge Intelligence, LoraWAN
- **Security** - Zero Trust, Encryption, IAM, RBAC/ABAC, Prompt Injection/Jail-Breaking, Security Anomaly Detection, AI Firewalls & Guardrails
- **Blockchain** – Identity, Bitcoin, LightningNetwork, Web3, Ethereum
- **Programming & Frameworks** – Python, Java, JavaScript, Go, HTML, Node, React, Spark etc.