

## Contact Information

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Location: London, UK

Nationality: British

## 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.

## Skills

- Data, ML, AI, Cloud, IoT, Blockchain, Security & Solution, HLD & LLD Architecture
- Strategy, Stakeholder Management, Agile Methodologies, Workshops & Mentoring
- Event & Domain driven design, REST/GraphQL APIs Applications, Chatbots
- Data (ELT) & AI (MLFlow, NLP) Pipelines, Platforms, Governance & Quality
- Databases SQL, NOSQL, Graph & Vector
- IAM (Identity and Access Management), RBAC & ABAC
- Security Zero Trust, Encryption (In Motion, At Rest)
- AI Pipelines for Machine Learning with MLFlow
- GenAI Agents, Frameworks, Guardrails, Prompt Engineering & Finetuning LLMs
- DevSecFinOps IaC, PaaS, CI/CD, Monitoring (Observability & Control) Automation.

## Professional Experience

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

Successfully migrated from on-prem and AWS to Azure, modernising and migrating hundreds of applications and platforms from legacy to event-driven highly accessible applications through REST/GraphQL APIs, eliminating siloed capability & dramatically reducing costs.

Transitioned the insurance broker marketplace platform from a legacy data warehouse to a more modern Lakehouse with Databricks, achieving seamless integration for new M&A. Implemented IAM Identity and Access Management (IAM) strategy, transitioning to a Zero Trust Architecture, and driving automation. Conducted AI workshops and provided working solution examples to help stakeholders grasp how LLMs will impact and benefit the business. Covered areas include Tuning vs Prompting, Chunking/Splitting/Embedding, GenAI Frameworks, Security, Governance & Containment.

### **Co-Founder – Sensational.Space (07/2023)**

Initiated the foundation of Sensational with a prime objective to bring artificial intelligence (AI) solutions to real-world scenarios, specifically by harnessing the power of small Internet of Things (IoT) devices at the edge. Elevated the functionality of IoT devices beyond mere sensors and actuators, by imbuing them with edge intelligence enabling them to communicate with each other seamlessly using LoraWAN and satellite communications. Adopting cutting-edge AI technologies, notably GenAI & Blockchain to drive automation and foster enhanced interaction between humans and machines.

### **CCAI Architect - United Nations (08/2020 - 11/2020)**

Spearheaded the creation of a pilot CCAI (Contact Centre AI, DialogFlow) for IT Support, significantly reducing resolution time for United Nations members worldwide, despite language barriers. Engineered a real-time metrics system within the chatbot, providing instantaneous data, thereby enabling informed decision-making and continuous improvement of the service.

### **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 & Snowflake. 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). Successfully moved 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 and NLEDS. Led successful initiative to have a fully automated platform. From Infra as code, data pipeline, user management to rolling upgrades. Led the Blockchain pilot for passports & visa on both public and private chain.

### **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)**

Digitised 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)

## Technology

**Architecture** – HLD,LLD,Agile,Enterprise,Solutions,Technical,Infrastructure, Data,ML/AI,GenAI,IAM,Security, Microservices,Docker,Kubernetes,API Gateway,gRPC, Parquet ,JSON,YAML,XML,Protobuf

**IAM & Security** – SSO,AUTH,RBAC,REST,ZeroTrust,Encryption, Azure AD B2C,IAM,PAM,RBAC/ABAC,Prompt Injection/Jail-Breaking,Security,Anomaly Detection, AI,Firewalls,Guardrails, OAuth,OIDC,SAML,JWT,HashiCorp Vault,CyberArk,Threat Modeling,Penetration Testing

**Cloud, DevSecOps**– GCP,AWS,Azure,Render,Railway,Colab,Hybrid(IaaS, PaaS,SaaS,AlaaS,AKS,EKS,Cloud Run,GitHub,KeyVault,JFrog, CloudFormation,ADO,VPC,IaC(Terraform),CI/CD,FinOps,ELT,EL+T(Live Tables),Airflow, Airbyte,MLFlow,Observability & Control, AWS Lambda,Amazon S3,AWS CloudTrail,AWS Config,AWS CloudWatch,AWS Step Functions,Azure Functions,Azure Logic Apps,Azure Event Grid,Azure Monitor,Azure Active Directory,Google Cloud Functions,Google Cloud Pub/Sub,Google Cloud,CDK,HA/DR, Monitoring,GoogleCloudIAM,Prometheus,Grafana,Splunk,Datadog,Ansible,Puppet,Chef,SaltStack Monitoring,GoogleCloudIAM,Prometheus,Grafana,Splunk,Datadog,Ansible,Puppet,Chef,SaltStack

**Data Curation & Governance** – Kafka,EventHub,Event-Sourcing,CQRS,Zero Trust,Databricks,PySpark,Azure Datalake,BlobStorage,CloudStorage,BigQuery,CosmosDB, DBT, Great Expectations,Snowflake,Neo4j,VectorDB,Provenance,Lineage,DQ,Curation(Unity Catalog), Live Tables,Guardrails,GDPR,PCI DSS, Avro,Parquet,ORC,Apache NiFi,Apache Atlas,Apache Kafka,Apache Hadoop,Hive,HBase,Google Cloud Dataprep,AWS Glue,AWS Data Pipeline.Data warehouse,Lakehouse,MDM

**CRM** – Salesforce,Novidea,HubSpot

**AI Models** – GPT-4(OpenAI),Claude2(Anthropic),PALM2,Cohere,Llama2(Meta) etc.

**AI Frameworks & Patterns** – SOTA,DialogFlow,Langchain(Langflow,Flowise,Chainlit, LangSmith,LangForge,LangchainHub),LlamaIndex,VertexAI,Bedrock,Transformers(Huggingface),Functions Calling(OpenAI),Prompt Engineering,RAG,ReAct,MRKL,Agents, Chunking/Splitting,Embeddings,VectorDB,Chatbots

**IoT** – Raspberry PI,ESP32,EdgeIntelligence,LoraWAN

**Blockchain** – Identity,Bitcoin,LightningNetwork,Web3,Ethereum,Solidity

**API's, Programming & Frameworks** – Python,PyTorch,Tensorflow,Java,JavaScript,Go,HTML,Node, React,Spark,REST,FunctionsKafka,EventHub's,Event Grid,Pub Sub, GraphQL,APIM,Apigee, Angular,Vue.js,Express.js,Spring,Spring Boot,.SOLID,WebAPI,NET,ASP.NET,Flask,Django,gRPC,Protocol

**MediatR**,NoSQL(MongoDB,Couchbase,Cassandra),SQL(MySQL,PostgreSQL,SQL Server),Time-series(InfluxDB,TimescaleDB),Graph(ArangoDB,TigerGraph),BAIN,NewSQL(CockroachDB,Google Spanner), ElasticSearch,Logstash,Kibana (ELK Stack),Apache Solr,OpenTracing,OpenTelemetry Buffers,Thrift,Apache Avro,RabbitMQ,MQTT,