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Executive Summary

Independent AI Consultant | 12 yrs AI R&D for MOD & FTSE100 | Reinforcement Learning • GANs • TDA • AI Ethics • Data Governance

Delivering advanced AI research, product development, and AI governance to enterprise, healthcare, and government clients.

Over a decade leading international AI programmes for MOD/DSTL and FTSE 100, built on 30 years of technology leadership.

Key Achievements

- Built and mentored high-performing technical teams translating R&D breakthroughs into deployable AI solutions.
- Reduced algorithmic bias $\times 30$ for criminal justice forecasting models.
- Delivered MOD reinforcement-learning cybersecurity agents exceeding MOD benchmarks.
- Created AI products to debias data and uncover new insights in structured datasets.
- Presented at Buckingham Palace and Milken Institute Global Conference.

Professional Experience

2025 — Present

Independent AI Consultant

- Delivered AI Strategy (Board-level) for the British Society of Antimicrobial Chemotherapy (BSAC) — defined integration roadmap across the charity.
- Steering Committee Member, Cybersecurity & AI Governance Initiative (CAGI) - AI & cybersecurity governance for critical infrastructure.
- Advising organisations on AI governance, explainability, and compliance within various sectors.
- Providing AI R&D, product development, and data consultancy to defence and enterprise clients.
- Specialism services include: Data debiasing (Rosa), and TDA-driven analytics (Columbus).
- Supporting bids, prototypes, and technology due-diligence for innovation programmes.

Professional Experience

2013 - 2025

Founder / AI Director @ illumr ltd

- Transitioned to independent consulting in 2025 following completion of illumr's core R&D portfolio.
- Built deep-tech AI firm delivering multi-phase MOD/DSTL contracts and enterprise AI projects across cybersecurity, behavioural analytics, and debiasing.
- Delivered MOD Autonomous Resilient Cyber Defence project using Reinforcement Learning Agents with Genetic Algorithms (Phase 1-3, exceeding MOD benchmarks, presented at AIFest 2023).
- Created 'Rosa', a Generative Adversarial Network solution to reduce bias in structured datasets.
- Developed 'Columbus', a Topological Data Analysis engine for identifying hidden insights in data.
- Raised over £500k combined seed and convertible-note funding; achieved JOSCAR & Constellia NVFi defence accreditation.
- Led global team across UK, France, Italy & Bulgaria delivering high-impact AI research and PoCs (TRL 3—4).

2020 - 2025

AI Product Development

Rosa - Debias Data Solution

- Ensured unbiased data for AI training, enhancing fairness in decision-making and compliance with global regulations.
- Recognised by the Ethical AI Governance Group (EAIGG) & Accenture FinTech Innovation Lab.

Columbus - Topological Data Analysis Solution

- Successful Proof of Concepts completed with Pfizer, easyJet, HouseMark, Banco Sabadell, Kier, Kingfisher, Intel, Rolls Royce, Unilever & Williams F1 et al.

2022 - 2023

SERAPIS MOD/DSTL/ARCD (Defence Science Technology Laboratory/Autonomous Resilient Cyber Defence)

- Secured UK defence innovation order for Training Cybersecurity Reinforcement Learning Agents using Genetic Algorithms to Autonomously Defend against a Cyber Attack for Generation-After-Next capability.
- Phase 1/Phase 2/Phase 3 orders all successful.

Professional Experience

2020 - 2022

SECTORED MKII (HMG Programme)

- Secured strategic R&D funding to pioneer Reinforcement Learning Augmented with Physical Models.
- Expanded programme scope through subsequent Phase 2 award for Augmented RL with Physical Models.
- Awarded novel bid for Vectorisation of Time-Series Data for Defence using Convolutional VAEs.
- Secured research bid for Training Reinforcement Learning Models with Genetic Algorithms.

2019

Defence & Security Accelerator (DASA)

- Secured DASA funding to develop our Columbus AI/TDA Alpha Demonstrator towards the need of the Defence & Security sector by quantifying the statistical significance and contributing features of interest of identified threat patterns ie Pattern Significance using Bayesian Networks (Behavioural Analytics).
- Successfully demonstrated a solution to an academic problem that had never been solved before.

2017 - 2018

Enterprise Accelerators (The Bakery/Founders Factory)

- The Bakery (Onboarded and introduced to their clients in both London, UK and Sao Paulo, Brazil).
- Founders Factory (Chosen as one of their first two AI start-ups on their AI Programme backed by China's CSC Group with a £250k Convertible Note).

2017

Metropolitan Housing (Social Housing Provider)

- Secured funding to help identify households where tenants were more likely to be the subject of a safeguarding incident eg domestic abuse.
- Successful engagement identified four key clusters of homes where tenants were 10-50x more likely to be at risk of an incident.
- Key outcome of project: Metropolitan empowered to act decisively to help safeguard tenants against potential risks.

2015 - 2016

Commercial Accelerators (Trialing for Product-Market Fit in Various Verticals)

- LMarks/Pitch@Palace/Winton Capital Labs.

2013 - 2014

Seed Investment/MOD Order/Smart Award

- Raised £250k Seed Investment to Kick-Start Venture.
- Recognised by Innovate UK with Smart funding to translate our TDA research into an Anti-Money-Laundering demonstrator for the Financial Sector.
- Secured strategic R&D funding from the MOD/Home Office/Serious Organised Crime Agency to develop our TDA research into a Counter-Terrorism Alpha Demonstrator for Defence & Security.

Earlier Career

Earlier career includes technology leadership roles spanning data visualisation, embedded systems, and early internet infrastructure - with clients such as Rolls-Royce, Oracle and BP.

2001 – 2012 **Business Development Consultant**

Provided strategic advice for tech and gov initiatives.

1998 – 2000 **Founder & CEO @ HyperSpace Corporation**

University of Birmingham spin-out.

1995 – 1997 **Co-Founder & CTO @ IComm Technologies**

One of the UK's first Internet companies.

1989 – 1994 **Director of Technology @ Plus Design Ltd**

Specialist consultancy to Oil & Aerospace industries.

Recognition & Thought Leadership

- Buckingham Palace (Invited Four Times, Met The Late Queen Twice, Speaker Once).
- House of Lords (Panelist with Lord Bilimoria).
- Milken Institute Global Conference (Panelist).
- Ethical AI Governance Group (Panelist).
- China Britain AI Summit (Panelist).
- DigitalK Conference, Bulgaria (Speaker & Winner of Pitch Competition).
- Interviewed on CGTN TV "AI in Britain: Booming sector looks to collaborate with China" Broadcast in Washington & Beijing.
- Led International Trade Missions (Invited by UK Embassies in Washington & São Paulo) on Homeland Security and Cybersecurity.
- Endorsed by Hays (Public Sector / Charity practice) as a high-level AI strategy consultant with "rare depth in an AI market full of noise".

Education & Training

MEng Electronic Systems Engineering

1st Class (Hons) @ Aston University

- Global Telecoms-Based Course (Tailored by BT).
- Sponsored with Four Years' Commercial Training.
- Medal for Educational Achievement.
- Awarded UK 1st Prize by The IMC.

Keywords

Core Technologies (Team Stack): Python, C#, R, TensorFlow, NumPy, PyTorch, Docker, CI/CD, AWS, Oracle
AI Methods: Reinforcement Learning (RL), Genetic Algorithms, GANs, LLMs, Generative AI, Agentic AI, TDA, Transfer Learning, Vectorisation, CVAEs
Domains: Cybersecurity, Defence R&D, Innovation, Proof-of-Concepts, Bid Writing, Counter-Terrorism, AMR, AI Governance & Ethics, ML Ops, Data Governance