

ROBERT VIRAGH

AI TRANSFORMATION LEAD & EXECUTIVE SOLUTIONS ARCHITECT

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AI Transformation Lead with a rare dual foundation in multi-agent AI systems engineering and business operations management. Proven track record driving enterprise AI adoption, streamlining cross-functional operations, and orchestrating autonomous agent workflows to solve complex operational challenges. Combines LSE MBA business discipline, multilingual stakeholder management (English, French, Hungarian), and deep technical expertise in model optimization and agentic orchestration to bridge the gap between technical AI execution and executive strategy.

CORE COMPETENCIES & EXPERTISE

AI TRANSFORMATION & LEADERSHIP - AI Strategy & Enterprise Roadmapping - Change Management & Stakeholder Alignment - Cross-Functional Team Leadership - Agentic Automation & Workflow Optimization	AGENTIC AI & ENGINEERING - Multi-Agent Systems & Task Decomposition - Agent Evaluation Harnesses & Verification - LLM Fine-Tuning (Gemma, Transformers) - Synthetic Data Pipeline Architecture
CLOUD INFRASTRUCTURE & SYSTEMS - GCP (BigQuery, Compute, IAM), AWS, Terraform - Python (FastAPI), C/C++, Go, SQL, Docker - Edge Inference (ONNX, WebGPU, WebGL, WASM) - Low-latency Data Streaming & Protocols	OPERATIONAL EXCELLENCE & LANGUAGES - Multinational Service Operations & Process Re-engineering - Enterprise Software (Salesforce, SAP, Jira) - Fluent in English, French, and Hungarian - U.S. & Hungarian Dual Citizenship

PROFESSIONAL EXPERIENCE

AI Systems & Agent Orchestration Lead — Pinit Bookkeeping	Remote Apr 2026 – Aug 2026
- Led cross-functional transformation by orchestrating multi-agent autonomous coding workflows (Claude, ChatGPT/Codex) integrated with structured Jira pipelines, translating business requirements into automated engineering execution. - Co-architected scalable cloud infrastructure on Google Cloud Platform using Terraform, BigQuery, and IAM, streamlining end-to-end user data ingestion and processing for enterprise accounting workflows. - Established enterprise automated verification and evaluation harnesses for agent-generated codebases, validating edge cases, data security, and full-stack integration prior to production deployment. - Directed beta customer onboarding pipeline and automated data ingestion workflows for large-scale multi-month e-commerce transaction datasets, accelerating client time-to-value.	
Enterprise Operations & Service Solutions Lead — Multinational Service Centers	Budapest, Hungary 2018 – 2025
Cognizant, Inc. (French Support Expert, 2024–2025): Led cross-border agreement resolution processes using Salesforce; received Top Contributor Award and highest customer satisfaction scores for operational excellence. Tech Mahindra, Inc. (IT Support Specialist, 2022–2024): Managed end-to-end technical issue resolution and system diagnostics for French enterprise clients, implementing standardized incident logging and knowledge bases. Systemax & Unisys (Customer Service & Service Center Agent, 2018–2021): Streamlined client order resolution processes via SAP and CRM enterprise tooling, facilitating multi-department communication across English and French accounts.	
Assistant Operations Manager — Emily's Home KFT	Munich, Germany Oct 2015 – Sep 2017
Managed international supplier relationships, commercial contracts, and payment negotiations (Net 30 terms) in English, French, and German; streamlined credit management and operational scheduling.	

AI TECHNICAL LEADERSHIP & RESEARCH INITIATIVES

Open-Weights Model Optimization: Gemma Fine-Tuning & Evaluation

Independent Project

- Architected an end-to-end parameter-efficient fine-tuning (PEFT) and benchmark evaluation pipeline targeting open-weights Gemma architectures to maximize model efficiency.
- Curated domain-specific synthetic task datasets, iterated on prompt-tuning strategies, and evaluated convergence, perplexity, and downstream generation accuracy.
- Published technical documentation on hyperparameter sensitivity, memory-efficient adaptation, and inference optimization trade-offs for enterprise edge deployment.

Research Paper: Evolving Brains? Cull Long Inference Times

Published Jan 2026

- Authored empirical research investigating evolutionary multi-agent simulations, adaptive neural controllers, and compute budget constraints under realistic inference time caps.
- Demonstrated experimentally that capping simulation lifetimes eliminated maladaptive attractors, enabling select generations to achieve 100% benchmark survival rates.
- Published reproducible experimental protocols, interactive simulation harnesses, and detailed latency and compute efficiency analyses.

Computer Vision & Synthetic Data Pipeline Optimization

Technical Portfolio

- Engineered an automated synthetic training data generation pipeline combined with YOLOv8n fine-tuning and ONNX graph optimization.
- Deployed lightweight, client-side inference across WebGPU, WebGL, and WASM runtimes, achieving 100% precision (37/37 detections) with zero false positives on held-out evaluation sets.

RealFlyBrain Connectome & Edge Prototypes

2026 – Present

- Spearheaded browser-based port of a neural connectome simulation harness; engineered real-time camera-reactive sensory loops and modular UI components.
- Architected a low-latency UDP streaming protocol harness with custom event-queueing algorithms sustaining 25–60 FPS at ~89 ms end-to-end latency.

EDUCATION & PROFESSIONAL DEVELOPMENT

Becoming an AI-First Product Leader – [LinkedIn Learning](#)

Jan 2026

Focus: Enterprise AI systems architecture, agentic automation roadmap, and machine learning infrastructure management.

MBA Essentials Certificate (12-Week Executive Program) – [London School of Economics \(LSE\)](#)

2022

Focus: Business strategy, financial accounting, managerial economics, and organizational leadership.

Undergraduate Curriculum in Mathematics – [Eötvös Loránd University \(ELTE\)](#)

Budapest, Hungary

Certificate in Translation & Interpreting – [University of Debrecen](#)

Debrecen, Hungary | 2008

LANGUAGES & GLOBAL CITIZENSHIP

• **English:** Native / Fluent Professional

• **Hungarian:** Native Speaker

• **French:** C1 Accredited (DALF C1) Professional

• **Citizenship:** Dual U.S. & Hungarian Citizen