



Curriculum Vitae — Ing. Martin Shtufi, Ph.D.

Founder • Chief Architect • AI & Big Data Specialist • Technology Strategist
Prague, Czech Republic

Contact Information

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Personal Statement

I build modern digital ecosystems that are scalable, intelligent, secure, and future-proof. My mission is to help organizations transform complexity into a clear, high-value technology strategy—and turn that strategy into robust, production-grade systems powered by AI, Cloud, and High-Performance Computing.

With over 20 years of leadership in enterprise architecture, AI, Big Data, and software engineering, I bring a rare combination of deep technical mastery, strong architectural vision, and executive-level communication, enabling me to guide clients through their most critical transformations.

Professional Summary

I am a senior technology leader, enterprise architect, and founder of Solutia, where I have spent more than two decades delivering large-scale, mission-critical IT systems for government institutions, regulated industries, and commercial enterprises.

My Ph.D. specialization in high-performance distributed systems complements my hands-on expertise in cloud-native architecture, AI/ML, modern application development, and secure enterprise environments. I help clients design and implement platforms that are not only technologically advanced but also aligned with their strategic objectives, regulatory needs, and long-term vision.

My strongest value lies in bridging the gap between business strategy and deep engineering, leading organizations through digital transformation with precision and measurable results.

Areas of Excellence

- Enterprise and Solution Architecture
 - AI/ML and Computer Vision platforms
 - Cloud-native transformation (OCI, AWS, Azure, GCP)
 - High-performance and horizontally scalable systems
 - Digital strategy, consulting, and IT governance
 - Security architecture, compliance and risk management
 - Full software lifecycle leadership (backend, frontend, mobile, DevOps)
 - Complex systems integration (API, SOA, event-driven architecture)
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Core Competencies

- Solution Architecture & Enterprise Architecture (TOGAF)
- AI/ML, Computer Vision, Robotics & Data Engineering
- High-Performance & Distributed Computing
- Cloud-Native Platforms (SaaS, PaaS, IaaS)
- Software Development Leadership
- Enterprise Security Architecture & Governance
- Digital Transformation Strategy
- Program & Portfolio Management (PRINCE2, ISO)
- Government & Public Sector IT
- Executive Advisory & Technology Leadership

Technical Expertise

Programming & Frameworks

- Java (Spring Boot, Microservices, Secure High-Performance APIs)
- Python (AI/ML, Computer Vision, Automation)
- JavaScript / TypeScript
- React, Next.js, React Native
- SQL, PL/SQL, Oracle, PostgreSQL, MS SQL
- UML 2.5, OOP, Domain-Driven Design, enterprise modeling

Architecture & Infrastructure

- Distributed Systems & Clustering
- High-Throughput & Real-Time Data Processing

- AI/ML Pipelines, Model Serving & Feature Engineering
- Event-Driven Architecture, Microservices, API Gateways
- Multi-Cloud & Hybrid Cloud Architecture (OCI/AWS/Azure/GCP)

Cloud & DevOps

- Kubernetes, Docker, GitOps
- CI/CD automation (GitHub Actions, GitLab, Jenkins)
- Infrastructure-as-Code
- Observability, monitoring, SRE practices

Security

- Enterprise Security Architecture
- IAM, SSO, Zero Trust principles
- ISO/GDPR compliance
- Secure SDLC, risk assessment, audit readiness

Professional Experience

Solutia s.r.o., Prague — Founder & Chief Architect

2003 – Present

As the founder of Solutia, I have shaped the company's technology vision, innovation culture, and architecture strategy for over 20 years. I work closely with government entities, regulated industries, and enterprise clients to design, build, and deliver secure, cloud-native, AI-powered ecosystems.

Leadership & Strategy

- Lead enterprise-wide architecture initiatives and modernization programs.
- Establish engineering standards, governance, and best practices for backend, frontend, AI, DevOps, and security teams.
- Drive R&D programs in AI, Big Data, and distributed computing.
- Collaborate with C-level executives to align technology with business strategy.

Architecture & Delivery

- Architected large-scale systems in public safety, utilities, e-government, identity management, and healthcare.
- Designed multi-cloud and hybrid-cloud infrastructures with high availability.
- Directed integration of AI/ML and Computer Vision into production workflows (e.g., RehabVision).
- Built secure, compliant, and high-performance platforms for mission-critical operations.

Technology & Business Advisory

- Provide technology due diligence, cost optimization, and cloud transformation advisory.
- Lead bid proposals, architecture assessments, and pre-sales strategy.
- Serve as long-term advisor for Oracle-based ecosystems and Big Data platforms.

Chief Executive Officer (2004–2022)

Directed corporate operations, delivery management, vendor partnerships, and strategic client engagements.

Simplilearn — Global Instructor

2016 – 2017

Delivered international training in cloud architecture, Big Data, and enterprise digital transformation.

TIME IMPORT a.s. — Program Supervisor & Technology Advisor

2005 – 2011

Led system integration and security initiatives across large forestry systems, including architecture strategy, integration platform governance, and modernization programs.

Telefónica O2 Czech Republic — IT Consultant

2002 – 2003

Architected and managed OSS/BSS integrations for next-generation telco services including carrier selection, portability, LLU, and ADSL.

Český Telekom — Integration Manager

2001 – 2003

Oversaw all interface and integration layers between Ordering, Billing, and Provisioning systems, ensuring reliable operations for voice and data services.

Logica CMG — IT Consultant & Solution Architect

2001 – 2002

Designed telco OMS solutions and integration architecture for next-generation services and operational automation.

Sitronics TS — Database Developer

2000 – 2002

Developed Oracle 8i and MS SQL backends, optimized high-volume database systems, and implemented performance-critical PL/SQL solutions.

Education

Ph.D. in Information Technology (High-Performance Distributed Systems)

University of Niš, Serbia (2016–2022)

Dissertation: Architecture design for a high-performance and general-purpose data processing system on big data clusters.

Focus: Distributed computing, Big Data, scalability, AI/ML infrastructure, cloud-native paradigm.

M.Sc. (Ing.) in Information Technology

University of Niš, Serbia (1992–1998)

BSc in Computer Science

University of Niš, Serbia

Certifications

- PRINCE2® Practitioner – Project Management
- ISO 10006:2003 – Project & Portfolio Management
- ISO 31000 – Risk Management Foundation
- ITIL v3
- TOGAF 9 Level 2
- TOGAF 10 Level 1
- MCP – Microsoft Certified Professional
- Oracle Cloud Infrastructure Classic – Certified Associate Architect (2018)
- Citrix Endpoint Management Certified (CC-CEM)
- Ethical Hacking Certification
- Project Management & Project Portfolio Management Certificate

Research Focus

- Distributed Systems & Cluster Computing
 - High-Performance Big Data Processing
 - AI/ML & Computer Vision Architectures
 - Cloud-native & Multi-cloud Platforms
 - Enterprise Modeling & Software Engineering
 - Secure, scalable, and mission-critical systems
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Professional Strengths

- Visionary leadership with hands-on architecture and engineering expertise
- Ability to simplify complex systems and deliver clear, actionable strategies
- Strong communication with C-level executives, management boards, and engineering teams
- Deep experience in regulated sectors with high security and reliability demands
- Passion for innovation, AI engineering, and building next-generation digital ecosystems

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