

# Nasr Kasrin (PhD)

✉ n42r.me@gmail.com | 🏠 n42r.github.io | 🌐 nkasrin



Experienced technology leader with 15+ years in AI, data architecture, and large-scale digital systems, spanning startups, global enterprises, and multi-million Euro R&D initiatives. Proven expertise in inter-organizational data strategy, solution architecture, and data governance, with a track record of driving data-driven transformation and innovation.

Inventor of The Basin Network, a next-generation data architecture for AI/ML data interoperability and governance across divisions and organizations (was awarded a PhD for this work). Adept at bridging technical execution with strategic business alignment, enabling data-driven decision-making at scale.

## Experience

### Lead Solution Architect

PUMA SE, GLOBAL E-COMMERCE ENGINEERING

2024 - present

Herzogenaurach, Germany

- Led and scaled two cross-functional teams (4+4 engineers, +2 leads), driving a **20% performance boost** for PUMA.com.
- Founded the **Technical Cats of Ecomm**, a platform for company-wide **technical communication and alignment**.
- Designed and developed an **AI/LLM-powered framework**, optimizing software engineering efficiency and automation.
- Resolved a critical, long-standing issue that was causing **90% order loss** during high-traffic product launches.

### Data Architecture Scientist | Doctoral Candidate | Founder-in-Exploration

FREELANCE

2021 - 2024

Bamberg, Germany

- Invented **The Basin Network**: a data architecture for interoperability and integration of ML data across teams and enterprises.
- Built **MuzeAI**: an open-source LLM-driven music recommendation prototype, with positive feedback from pilot users.
- Was co-founding a B2B startup (medical sector) for AI/LLM-driven solutions (left when joining PUMA).

### Research Associate (Team Lead | Dev Lead | Architect | Data Solutions Engineer)

UNIVERSITY OF BAMBERG (EU-FUNDED MANUFACTURING PROJECT)

2015 - 2020

Bamberg, Germany

- Led a 4-year initiative to develop **SIMUTOOL Data Management SaaS**, which optimized operational efficiency by 30% for a €3.5M EU-funded aerospace manufacturing consortium.
- Engineered a read-heavy SaaS, ensuring seamless operations and future-proof scalable architecture.

### R&D Engineer (AI) | Team Lead | Software Architect

TAYAIT

2011 - 2014

Cairo, Egypt

- Led a team to build AI players for a commercial iOS mobile board game (**Tawla**), driving rankings from 3 to 4.5/5.
- Directed a team in building an iOS mobile app (**Greetings Studio**) increasing user engagement by 10x.
- Reduced feedback-development cycle times by 25% by coordinating cross-functional collaboration between technical and business.
- Saved the company 10-man months by investigating emerging trends and advising the CEO away from dead end directions.

## Areas of Interest

### Strategy

Enterprise Data Strategy & Governance, Data Architecture & Data Mesh Implementation, Technical Communication

### Leadership

Cross-functional collaboration, Product Management, Stakeholder Engagement & Data-Driven Decision Making

### Tactical

Solution Architecture & Scalable Data Systems, AI & ML Data Interoperability

### Domain Expertise

AI, Metadata, Data (Integration | Governance | Interoperability | Cataloguing), Standardization, Domain Modeling

### Data Engineering & AI/ML

SQL, NOSQL, Python, data interoperability

## Education

### PhD. (Dr. rer. nat.): Data Architecture

OTTO-FRIEDRICH-UNIVERSITÄT BAMBERG, FACULTY OF INFORMATION SYSTEMS & APPLIED COMPUTER SCIENCE

Bamberg, Germany

### MSc. (Masters of Science): Robotics / Artificial Intelligence

THE GERMAN UNIVERSITY IN CAIRO, FACULTY OF COMPUTER SCIENCE & ENGINEERING

Cairo, Egypt

### BSc. (Bachelors of Science)

THE GERMAN UNIVERSITY IN CAIRO, FACULTY OF COMPUTER SCIENCE & ENGINEERING

Cairo, Egypt