

# Nasr Kasrin (Dr.)

ENGINEERING MANAGER · TECHNICAL LEADER

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Engineering leader with 15+ years of experience across enterprises, startups, and R&D. Proven record of **building and leading high-performing teams**, driving delivery of complex systems, and aligning technical strategy with business goals. Experienced in **hiring, coaching, and mentoring engineers**, while ensuring excellence in large-scale, distributed systems.

## Experience

### Lead Solution Architect / Acting Engineering Manager

06.2024 - 07.2025

PUMA SE, GLOBAL E-COMMERCE ENGINEERING

Herzogenaurach, Germany

- **Reduced critical tech debt by 30%** via a structured program (effort-value analysis, CI/CD, automated testing, and reliability enhancements).
- **Boosted PUMA.com performance by 20% in two quarters** by leading two engineering teams in optimization and process improvements.
- **Partnered with product and business stakeholders** to define technical roadmap, balancing scalability with delivery.
- **Resolved a critical production incident** (90% order loss) and introduced post-mortem practice to prevent recurrence.

### Founder-in-Exploration / Doctoral Candidate

2021 - 2024

FREELANCE

Bamberg, Germany

- **Completed PhD** (Dr. rer. nat.), inventing [The Basin Network](#) – an architectural pattern for interoperable ML/data systems.
- **Explored venture opportunities** from PhD work and co-founded an early-stage B2B healthtech startup, shaping roadmap & technical strategy.
- **Built MuzeAI**, a python-based open-source AI/LLM music recommendation prototype, gathering positive feedback from pilot users.

### Research Associate / Engineering Team Lead

2015 - 2020

UNIVERSITY OF BAMBERG

Bamberg, Germany

- **Directed a €3.5M EU aerospace consortium project**, overseeing roadmap, budgeting, and milestone delivery across European partners.
- **Managed a cross-functional engineering team** (4 engineers + researchers), driving hiring, onboarding, coaching, and career development.
- **Architected & delivered a distributed SaaS data management system, contributing to several components** (Python, DB-layer, REST APIs).
- **Defined system architecture and technical standards**, ensuring scalability, security, and operational reliability for manufacturing use cases.

### R&D Engineer / Engineering Team Lead (AI & Mobile)

2011 - 2014

TAYAIT

Cairo, Egypt

- **Led and grew a small engineering team (3 engineers)**, overseeing hiring, onboarding, coaching, and mentoring while developing AI players that raised game ratings from 3.0 to 4.5/5 and optimized workflows to cut feedback-to-delivery cycle time by **25%**.
- **Directed mobile app (iOS) development**, driving 10x early-stage user engagement and shaping the product roadmap.
- **Advised CEO on technical and operational decisions**, aligning team execution with business priorities and saving 10 man-months.

## Skills

### Leadership & Management

People leadership, hiring, coaching, mentoring, stakeholder engagement, delivery ownership.

### Technical Strategy

Solution & integration architecture, scalable data systems, interoperability, AI/ML data integration.

### Engineering Practices

Agile methods, CI/CD, post-mortems, system reliability, code quality, tech-debt reduction.

### Tech Stack

Python, REST APIs, SQL/NoSQL (MySQL, MongoDB), GCP, Node.js, microservices, data engineering.

## Education

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

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

Bamberg, Germany

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

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

**Languages** English: Fluent | German: Good (B1/B2)